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* Including Reviews on Biomembranes, Vol. 1241.

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Introduction

For the Subject Index, up to six key words (or short phrases) are selected for each article; these are printed together, and each is selected in turn to form an index entry. Important factors of each investigation are selected as key words; general terms such as enzyme, rat, spectroscopy, etc. will not be found as separate entries. However, such words, together with appropriate entries for source(s) of materials or for method(s) used, may be found in parentheses at the end of a group of key words. These words are sub-key words and are intended to provide useful supplementary information; they do not, however, constitute sufficiently precise indexing terms to be used as index entries.

Also in parentheses at the end of each group of key words will be found the name of the first author, the volume and the first page number of the article. The full published title and co-authors of an article can be found by consulting the relevant entry for the first author in the Author Index. To determine in which section an article has been published, the volume number indicated for an entry should be checked against the Publication Schedule, which can be found in the preliminaries of this Index.

Readers should note that American spelling is used throughout the Subject Index.

Authors of review articles are quoted in the Author Index. BBA reviews published in the special review sections (Biomembranes and Cancer) are not included in the key-word system, but cumulative contents are to be found at the end of the Subject Index. A list of reviews published in the regular sections of BBA is also presented for the convenience of readers; such reviews are included in the key-word system.

The Editors and Publishers welcome any comments on the usefulness of this Index, together with suggestions for improvements.

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Information for Contributors

BBA – Aims and Scope

Biochimica et Biophysica Acta publishes papers reporting advances in the knowledge or understanding of any field of biochemistry or biophysics. More than forty volumes are published each year, each section featuring the latest scientific developments in its field of interest. BBA publishes Regular papers, Rapid reports, and Short sequence-papers and Promoter papers which contribute new and significant information to the fields of biochemistry and biophysics. Negative results will be accepted only when they can be considered to advance this knowledge significantly. Papers providing only confirmatory evidence or extending observations firmly established in one species to another will not normally be accepted. The journal is divided into ten specialized sections:

Bioenergetics covers the area of biological energy transfer and conversion, focusing on the kinetics and thermodynamics of molecular mechanisms involved in photosynthesis, mitochondrial and bacterial respiration, oxidative phosphorylation, motility and transport, as well as the underlying molecular structures. This section also includes Reviews on Bioenergetics.

Biomembranes has its main focus on membrane structure, function and biomolecular organization, membrane proteins, receptors, channels and anchors, fluidity and composition, model membranes and liposomes, membrane surface studies and ligand interactions, transport studies, and membrane dynamics.

Gene Structure and Expression covers DNA and RNA structure, DNA replication and expression, damage and repair, transcription mechanisms and factors, translation, RNA processing, control of gene expression, cell-cycle control, gene rearrangements and recombination, nucleic acid – ligand interactions, DNA-modifying enzymes, viral systems and molecular genetics. This section also includes Short sequence-papers describing DNA and RNA sequences for protein coding, regulatory or structural elements, and promoter papers describing sequence and functional analysis of promoter and enhancer regions. Short sequence-papers are also published in other sections of BBA when this is more appropriate.

General Subjects includes a wide diversity of papers and provides a vehicle for publication of novel and challenging subjects in developing areas of research not yet established, as well as completing BBA's coverage of other important areas of biochemistry (glycobiology and novel compounds) and biophysics for which no specialized section exists.

Lipids and Lipid Metabolism covers the novel aspects of lipid biosynthesis and metabolism, including protein lipid anchors, in all organisms. Emphasis is given to the enzymology and molecular biology of the enzymes involved in lipid metabolism. In addition, molecular genetics of the genes involved will be emphasized in the future.

Subsection: Lipids in Signalling and Recognition, concentrates on all biochemical and biophysical aspects of lipids and lipid-derived messenger molecules, including their structure, physicochemical properties and transport, regulation and enzymology of their biosynthesis and metabolic inactivation, and the recognition processes underlying their biological activities.

Molecular Cell Research focuses on cellular processes at the molecular level. These include aspects of intracellular trafficking, regulation of the secretory and endocytic pathways, sorting and targetting, organisation and dynamics of of cytoskeletal structures, cellular interactions, cell cycle regulation, cell/tissue differentiation and cellular enzymology. Also included are studies at the interface between Cell Biology and Biophysics which apply for example novel imaging methods for characterizing cellular processes. Excluded, however, are studies describing purely cellular or pharmacological aspects.

Subsection: Signal Transduction primarily focuses on hormone and neurotransmitter action, receptor structure and regulation, transmembrane signalling systems, second messengers, protein phosphorylation, and calcium in signal transduction

Protein Structure and Molecular Enzymology covers protein structure, conformation and dynamics, protein-ligand interactions, enzyme mechanisms, models and kinetics, physical properties and spectroscopy. *Manuscripts, the principal purpose of which is to describe the purification of a protein, are considered outside the scope of BBA.* Concise and comprehensive reviews of recent developments are considered for publication. However, authors are strongly advised to consult with one of the Executive Editors before starting a review.

Molecular Basis of Disease addresses the biochemistry and molecular genetics of disease processes and their models. The section covers metabolic, membrane, receptor and immunological disorders as well as viral, bacterial and parasitological disorders, and includes the biochemistry of differentiation disorders, tissue damage and aging.

Reviews on Cancer covers the whole field of the biology and biochemistry of cancer, emphasizing oncogenes and tumor suppressor genes, growth-related cell cycle control signalling, carcinogenesis mechanisms, cell transformation, immunologic control mechanisms, genetics of human (mammalian) cancer, control of cell proliferation, genetic and molecular control of organismic development, rational anti-tumor drug design. In short, the journal presents critical reviews on new developments in cancer investigation at the molecular level.

Reviews on Cancer Online available on the World Wide Web at:
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Reviews on Biomembranes publishes cutting-edge reviews of new developments in the field of biomembranes.

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BBA publishes English-language papers only. Papers may be written in either American or British English, provided that the preferred spelling is used consistently throughout.

Many readers of the journal are not native speakers of English. It is therefore important to write succinctly and clearly, using short, simple sentences and avoiding long adjectival phrases and laboratory jargon. The following types of paper are published:

Regular papers

A Regular paper is the normal medium of publication. Although there is no fixed length, Regular papers should be as concise as possible, while providing sufficient information for the work to be repeated and for the claims of the authors to be judged by the readers.

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Rapid reports should meet the following conditions:
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(2) be concise and not normally exceeding 4 printed pages (i.e., up to 12 pages of double spaced typescript, including tables and figures up to a total number of 4);
(3) comprise no separate sections, except for a summary and the reference list.

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(b) Rapid reports will be added to the beginning of issues currently in production.
(c) An accepted Rapid report will generally be published within 8 weeks of the date of receipt at the Publisher's office, depending on issue scheduling.

Short sequence / Promoter papers

These are published in the 'Gene Structure and Expression' section, and conform in style and format to BBA Rapid reports. Short sequence-papers include data on structural RNA and its genes, DNA sequences coding for a protein, and other DNA regions of general interest, such as repetitive DNA. Intron sequences without known function or comparative sequences of already well-characterized genes are acceptable only if considered to be of sufficient interest. This implies that the sequence reveals novel domains conserved between species, thus leading to additional understanding of the gene product. If the paper only confirms in one organism what is already known for several other species, it will not be considered eligible for publication in BBA. Short sequence-papers should include a comparison of related sequences and a description of salient features of the sequence and data on expression of the genes described. Papers presenting sequences presumably coding for a protein must be accompanied by sufficient evidence, e.g., expression data, that the gene indeed codes for such a protein. Promoter papers include data on promoter or enhancer sequences or other regulatory regions required for gene expression. In addition to the sequence itself, these papers should include novel information on the transcription start site and functional studies, e.g., using reporter genes. Such studies could entail a deletion analysis or otherwise establish functional regions in the promoter that act either positively or negatively. In addition, information on the recognition of these functional regions by transcription factors could be included, e.g., using band shifts or footprints.

Manuscripts should be marked 'Short Sequence/Promoter paper' and the accompanying submission letter should state explicitly that a Short sequence/Promoter paper is being submitted. They are handled as Rapid reports, but must be submitted to the Amsterdam address.

Sequences must be presented in photographic (i.e., camera-ready) form, and should be deposited in one of the usual data banks **before** submission. Accession numbers should be mentioned in the submission letter and in a footnote to the Short sequence/Promoter paper.

Reviews

BBA reviews are published in the independent sections Reviews on Cancer and Reviews on Biomembranes, and in all other sections of the journal. They are contributed by scientists who are leading specialists in their field of expertise, normally at the invitation of the Executive Editors. Authors wishing to contribute a review paper are advised first to contact one of the responsible Executive Editors (listed in the issues of BBA) to avoid overlap with Reviews already commissioned.

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Equations should be numbered in the right margin as follows:

$$A + B \rightarrow C + D \qquad (1)$$

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Pyruvate-ferredoxin oxidoreductase; Redox property; EPR; Mechanism of ATP production; Pyruvate-ferredoxin oxidoreductase; (*D. africanus*) (Pieulle, L. (1250) 49)

Dihydrofolate reductase; Inactivation; Protein unfolding; Urea (Fan, Y.-x. (1252) 151)

Surfactant; Inflammation; Lavage; Silica (Viviano, C.J. (1259) 235)

Activation by EGTA
ATPase, Ca^{2+}-; Modulation by EGTA; EGTA; Erythrocyte; (Human) (Romero, P.J. (1240) 115)

Activation–deactivation cycle
Molecular activation; Xanthine oxidase; Reactive oxygen species; (Human milk) (Brown, A.-M. (1245) 248)

Activation mechanism
Metalloproteinase; Recombinant gene product; Glycoprotein; Active site; Mutation; (*Leishmania*) (Macdonald, M.H. (1253) 199)

Active oxygen species
Antioxidant; Inducible NO synthase; Nitric oxide (Mikoyan, V.D. (1269) 19)

Active site
Lipase; Chemical modification; Mass spectrometry; (*S. hyicus*) (Boots, J.-W.P. (1248) 27)

Pyridoxal phosphate; Enzyme inactivation; Structure–function relationship; Cofactor-dependent enzyme (John, R.A. (1248) 81)

Pyruvate dehydrogenase complex; α-Keto acid dehydrogenase complex; Chemical modification; Arginine (Eswaran, D. (1252) 203)

Conformational change; Creatine kinase; Denaturation; Guanidine hydrochloride; Spin labeling (Liu, Z.-J. (1253) 63)

Metalloproteinase; Recombinant gene product; Glycoprotein; Mutation; Activation mechanism; (*Leishmania*) (Macdonald, M.H. (1253) 199)

Active-site disulfide
Thioredoxin structure; Ferredoxin:thioredoxin reductase (Salamon, Z. (1230) 114)

Active site residue
Arginine kinase; Creatine kinase; Phosphagen kinase (Strong, S.J. (1246) 197)

Active transport
Ion transport; Electrostatics; ATPase, Ca^{2+}-; Binding site asymmetry (Hao, M.-H. (1234) 5)

Actomyosin interface
Actin (Dos Remedios, C.G. (1228) 99)

Acute phase reactant
β-Galactoside α-2,6-sialyltransferase; Transcriptional regulation; Interleukin 6 induction; (HepG2 cell) (Aas-Eng, D.A. (1261) 166)

Acylated protein
Hydrophobic surfactant protein; Dimeric protein; Surface tension; Pulmonary surfactant (Creuwels, L.A.J.M. (1254) 326)

Acylated steryl glucoside
Sterol; Lipid hydration; Lipid phase behavior; Freezing; Hexagonal II phase transition; (Plasma membrane) (Webb, M.S. (1239) 226)

Acylation
Deacylation; Solvent; Serine hydrolase; Transesterification; Esterification (Martinelle, M. (1251) 191)

Ethanol; Glycerolipid; Liposynthesis; Reticulocyte; (Rat) (Le Petit-Thevenin, J. (1257) 103)

Palmitoylation; Red blood cell; Ghost; Hydroxylamine (Schmidt, M.F.G. (1257) 205)

Acyl-binding/lipid-transfer protein
Amino acid sequence; Isoprotein (Østergaard, J. (1254) 169)

Acylcarnitine
Biosynthesis/formation; Carnitine; Pivaloylcarnitine; (Rat) (Diep, Q.N. (1243) 65)

Acyl carrier protein
Polyketide synthase; 4'-Phosphopantetheine; Electrospray mass spectrometry; Malonyl transferase; (*Streptomyces*) (Crosby, J. (1251) 32)

Acyl carrier protein gene, seed-expressed
Sequence alignment; (*B. campestris*) (Das, N. (1258) 75)

Acyl chain composition
Lipid bilayer; Spontaneous curvature; Headgroup composition; Nonlamellar phase; (*A. laidlawii*) (Österberg, F. (1257) 18)

Acyl-CoA
Coenzyme A; Lysophosphatidylinositol; Lysophosphatidylcholine; Phosphatidylinositol; Phosphatidylcholine (Sugiura, T. (1255) 167)

1-Acyl-*sn*-glycero-3-phosphoinositol acyltransferase; Phosphatidylinositol; Substrate specificity; Polyunsaturated fatty acid; Icosanoid precursor; (Rat submandibular gland microsome) (Yashiro, K. (1258) 288)

Acyl-CoA:cholesterol acyltransferase
Ceramide; Dihydroceramide; CHO cell (Ridgway, N.D. (1256) 39)

Inhibition; Membrane environment (Harte, R.A. (1258) 241)

Atherosclerosis; Hypercholesterolemia; (Rabbit) (Matsuo, M. (1259) 254)

Acyl-CoA oxidation
Growth hormone; Thyroid hormone; Clofibrate; ω-Hydroxydodecanoic acid; Hepatocyte culture (Sato, T. (1256) 327)

Acyl-ester hydrolase
Lipid; Triacylglycerol; (Sunflower seed) (Teissère, M. (1255) 105)

***N*-Acylethanolamine**
N-Acylphosphatidylethanolamine; Anandamide; Glutamate; Neurotoxicity; Cortical neuron (Hansen, H.S. (1258) 303)

Cannabinoid; Phenylmethylsulfonyl fluoride; Amidohydrolase; (Marijuana) (Hillard, C.J. (1257) 249)

***N*-Acylphosphatidylethanolamine**
Liposome stability; Membrane fluidity; Ganglioside; Serum protein; Serum–liposome interaction (Mercadal, M. (1235) 281)

N-Acylethanolamine; Anandamide; Glutamate; Neurotoxicity; Cortical neuron (Hansen, H.S. (1258) 303)

1-Acyl-*sn*-glycero-3-phosphoinositol acyltransferase
Phosphatidylinositol; Substrate specificity; Acyl-CoA; Polyunsaturated fatty acid; Icosanoid precursor; (Rat submandibular gland microsome) (Yashiro, K. (1258) 288)

Acyltransferase
Membrane protein; Phosphatidylethanolamine; Fatty acid; Phospholipid metabolism; (*G. hirsutum*) (McAndrew, R.S. (1256) 310)

Adaptive response
Taurine transporter; mRNA level; Protein synthesis; RNA synthesis; Choriocarcinoma cell; (Placenta) (Jayanthi, L.D. (1235) 351)

Adenine nucleotide
HPLC; ATPase, H^+-; Binding site; Kinetics; ATP hydrolysis (Pezennec, S. (1231) 98)

Luciferase; Bioluminescence; Coenzyme A; (Firefly) (Ford, S.R. (1252) 180)

Adenine nucleotide translocase
Calcium; ATPase, F_1F_o-; Inhibitory protein; Crabtree effect; (Ehrlich ascites tumor) (Bogucka, K. (1228) 261)

Respiration; Mitochondrion; Postnatal development; Flux control coefficient; (Brain) (Schönfeld, P. (1232) 75)

Adenocarcinoma, pancreatic
CFTR, cystic fibrosis transmembrane regulator; cyclic AMP activation; Chloride channel (Smith, A.N. (1271) 315)

Adenosine
NMR, ^{31}P-; High-energy phosphate; Preconditioning; Purine (Bradamante, S. (1243) 1)

Adenylate metabolism; Enzymology; Heart; (Rat); (Human) (Tavenier, M. (1244) 351)

Adhesion; Hemocyte; Caffeine; Phagocyte; Inhibition; (Mussel) (Chen, J.-H. (1268) 178)

L-Adenosine
Merozoite; Nucleoside transport; Parasitophorous duct; Metabolism; (*P. falciparum*) (Upston, J.M. (1236) 249)

***S*-Adenosylmethionine**
Thioether; Methyltransferase; cDNA cloning; Sulfur; Selenium; (Mouse lung) (Warner, D.R. (1246) 160)

***S*-Adenosylmethionine decarboxylase**
Polyamine; Protein turnover; Translational regulation; COS cell (Svensson, F. (1260) 21)

***S*-Adenosylmethionine decarboxylase mRNA**
mRNA, maternal; Ornithine decarboxylase mRNA; Polyamine; Protein degradation; Post-translational control; (*X. laevis*) (Rosander, U. (1264) 121)

***S*-Adenosylmethionine:protein-arginine *N*-methyltransferase**
N^G-Methylarginine; Structural substrate specificity; (Protein methylase I) (Rawal, N. (1248) 11)

Adenovirus E1A
F9 cell; Cell differentiation; CR domain; c-jun (Li, H.-O. (1266) 148)

Adenylate cyclase
Percolation theory; Fluorescence recovery; FRAP; Reticulocyte; Plasma membrane (Zakharova, O.M. (1236) 177)

Forskolin; Corticotropin; Fluoride; Mathematical model (Juška, A. (1236) 289)

Adenylate deaminase
Diadenosine polyphosphate; Ap_4A; Diinosine polyphosphate; (*Helix pomatia*) (Guranowski, A. (1243) 78)

Adenylate kinase
Polyphosphate; Exopolyphosphatase; Protein purification; Sponge; (*Tethya lyncurium*) (Lorenz, B. (1245) 17)

Adenylate metabolism
Adenosine; Enzymology; Heart; (Rat); (Human) (Tavenier, M. (1244) 351)

Adenylyl cyclase
Adenylyl cyclase; P-site inhibition; Iodo-aryl-azide; Photoaffinity ligand; 2',5'-Dideoxyadenosine (Shoshani, I. (1245) 37)

Adenylyl cyclase; P-site inhibition; Iodo-aryl-azide; Photoaffinity ligand; 2',5'-Dideoxyadenosine (Shoshani, I. (1245) 37)

Ethanol; Somatostatin receptor; G protein (Alvaro-Alonso, I. (1268) 115)

HeLa cell; G-protein; 8-Methoxypsoralen; Khellin (Di Stefano, A. (1269) 162)

Adhesion
Neutrophil; Arterial material; Polystyrene; Surface modification (Wakabayashi, Y. (1243) 521)

Cyclooxygenase 2; Macrophage; Non steroidal anti-inflammatory drug; Prostaglandin (Tordjman, C. (1256) 249)

Hemocyte; Adenosine; Caffeine; Phagocyte; Inhibition; (Mussel) (Chen, J.-H. (1268) 178)

Adhesion molecule
PP3; GlyCAM-1; Mammary gland; Mastitic inflammation; Lymphocyte (Johnsen, L.B. (1260) 116)

Endothelial cell; Neutrophil; Xanthine oxidase; Elastase (Wakabayashi, Y. (1265) 103)

Trophoblast; Cell adhesion; Cyclohexylamine; Leukocyte; Fucose-1-phosphate (Douglas, G.C. (1266) 229)

Adipocyte
Insulin; Insulin receptor; Palmitoylation; CD36 (Jochen, A.L. (1259) 65)

cAMP-dependent protein kinase; Inhibitor; Insulin; Lipolysis; Phosphodiesterase (Eriksson, H. (1266) 101)

Adipose tissue
Androgen; Receptor; (Rat) (Sjögren, J. (1244) 117)

Liver; Intestinal mucosa; Obesity; Glycerolipid formation; Triacylglycerol; Phosphatidate phosphohydrolase (Jamdar, S.C. (1255) 237)

Docosahexaenoic acid; Yolk; Brain; (Chick embryo) (Maldjian, A. (1258) 81)

Fatty acid; Oleic acid; Age; Sex difference; (Rat) (Thorling, E.B. (1258) 195)

Adjuvant
Liposome; ISCOM; Vaccine; Subunit; Vehicle (Kersten, G.F.A. (1241) 117)

ADMR
Photosynthesis; Reaction center; Pigment modification; [3-Vinyl]-13^2-OH-bacteriochlorophyll *a*; Triplet state; Absorption detected magnetic resonance; (*Rhodobacter sphaeroides*) (Hartwich, G. (1230) 97)

Photosynthesis; Purple bacterium; Antenna; Reaction center; Light-harvesting; (*R. gelatinosus*) (Jirsakova, V. (1231) 313)

ADP
Glanzmann's thrombosthenia; Photoaffinity labeling; Receptor; Binding (Greco, N.J. (1236) 142)

ADP ribose
Archaea; Thermostability (Faraone-Mennella, M.R. (1246) 151)

Nucleoside diphosphosugar; CDP-choline; Pyrophosphohydrolase; Nucleotide pyrophosphatase; Phosphodiesterase-I; Manganese(II); Magnesium(II); (Rat liver) (Canales, J. (1246) 167)

Enzyme kinetics; Polymerase; DNA repair; Poly(ADP-ribose) metabolism (Lagueux, J. (1264) 201)

ADP-ribosylation
Rat submandibular gland; Mucin secretion; Desensitization; GTP binding protein; Phosphorylation; cyclic AMP-dependent protein kinase (Ishikawa, Y. (1265) 173)

Adrenal
Adrenodoxin; cDNA; Mitochondrion; Steroidogenesis; (Mouse) (Stromstedt, M. (1261) 126)

Adrenal cortex
GTP-binding protein; Mitochondrion; Photoaffinity labeling; Cholesterol (Thomson, M. (1248) 159)

Cytochrome $P\text{-}450_{11\beta}$; Steroid 11β-hydroxylase; Nucleotide sequence; (Sheep) (Boon, W.C. (1260) 109)

α-Adrenergic receptor
Calcium; Phospholipase C; Phosphoinositide; Myocardial reperfusion injury (Moraru, I.I. (1268) 1)

β_1-Adrenergic receptor
GM1 ganglioside; Modulation of β-adrenergic receptor by GM1; cyclic AMP formation; Baculovirus; Sf9 cell (Saito, M. (1267) 1)

α_2-Adrenoceptor subtype
Ligand binding; [^{3}H]Rauwolscine; [^{3}H]Atipamezole; [^{3}H]RX821002; Recombinant cell line (Halme, M. (1266) 207)

Adrenodoxin
Adrenodoxin reductase; Limited proteolysis; Crosslinking (Warburton, R.J. (1246) 39)

cDNA; Adrenal; Mitochondrion; Steroidogenesis; (Mouse) (Stromstedt, M. (1261) 126)

cAMP; Ferredoxin; Forskolin; Kidney (Itoh, S. (1263) 173)

Adrenodoxin reductase
Adrenodoxin; Limited proteolysis; Crosslinking (Warburton, R.J. (1246) 39)

Adsorption
Emulsion; Water soluble; *p*-Nitrophenyl ester; Sodium dodecyl sulfate (Martinelle, M. (1258) 272)

Adsorption isotherm
Probe–membrane interaction; Fluorescent probe; 9-Aminoacridine; Transmembrane pH difference; Bacterial chromatophore (Casadio, R. (1237) 23)

Advanced glycosylation end product (AGE)
Nitric oxide; *S*-Nitrosylation; Glutathione; Lymphocyte proliferation; cGMP; Glucose transport; (Human) (Farkas, J. (1245) 305)

Advanced glycosylation end product
Diabetes; Atherosclerosis; Oxidation; Lipid peroxide; (Human) (Dobrian, A. (1270) 26)

AE2
Anion exchanger; Alternative splicing; (Organ of Corti) (Negrini, C. (1236) 207)

Affinity chromatography
Chaperone Cpn60; GroEL; Urea-induced monomerization; (*E. coli*) (Blennow, A. (1252) 69)

Antigenicity; Topochemically related peptide; Inverso derivative; Retro derivative; (Rabbit) (Verdoliva, A. (1253) 57)

Glycerol-3-phosphate acyltransferase; Microsomal membrane; (Avocado); (*P. americana*) (Eccleston, V.S. (1257) 1)

Aflatoxin
Gene regulation; Nucleotide sequence; Thiamine; (*Aspergillus*) (Cary, J.W. (1261) 319)

Age
Fatty acid; Oleic acid; Adipose tissue; Sex difference; (Rat) (Thorling, E.B. (1258) 195)

***A* gene**
Bacteriophage D3112; *B* gene; Transposase (Ulycznyj, P.I. (1264) 249)

***aox*A gene**
L-Amino acid oxidase; Cyanobacterium; (*Synechococcus* PCC6301) (Bockholt, R. (1264) 289)

Aggregation
Albumin; Phospholipid; Detergent; Mixed micelle; Phospholipid; Lipid solubility (Meyuhas, D. (1234) 203)

Fusion; Interdigitation; Liposome; Ethanol; Vesicle (Komatsu, H. (1235) 270)

Amino phospholipid; Fluorescence anisotropy; Peroxidation; Reverse micelle (Wang, J.-Y. (1236) 228)

Inclusion body; Recombinant α_1-antitrypsin; Refolding (Kwon, K.-S. (1247) 179)

Hemoglobin; Oxygen binding; Chloride effect; Carbon dioxide effect; Bohr effect; Cyclostome; (Hagfish); (*M. glutinosa*) (Fago, A. (1249) 109)

Lipoprotein lipase; Monomer; Dimer; Hyperchylomicronemia (Masuno, H. (1254) 30)

Cholesteryl sulfate; Blood platelet; Secretion; Thromboxane; Sterol (Blache, D. (1259) 291)

Aging
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Membrane composition; ST-EPR; Mass spectrometry; EPR (Krainev, A.G. (1235) 406)

Human articular cartilage; Collagen; Intrafibrillar water (Wachtel, E. (1243) 239)

Protein carboxyl methyltransferase; Cataract (Kodama, T. (1245) 269)

HPLC; Mercaptalbumin; Nonmercaptalbumin; Redox state; Serum albumin; (Human) (Era, S. (1247) 12)

Non-enzymatic glycosylation; Maillard reaction; Collagen; Plasma protein; Diabetes (Portero-Otin, M. (1247) 74)

Gene expression; Apolipoprotein A-I; Lipoprotein (Shah, G.N. (1259) 277)

Fibronectin; Alternative splicing (Caputi, M. (1263) 53)

Calcium binding protein; cDNA; Senescence marker protein-30 (SMP30); X chromosome; (Human); (Liver) (Fujita, T. (1263) 249)

IAP; Retrotransposon; Gene tagging; (Mouse liver) (Dupressoir, A. (1264) 397)

Articular chondrocyte; Transglutaminase activity; Retinoic acid; Collagen synthesis; Differentiation (Demignot, S. (1266) 163)

Hutchinson-Gilford disease; Progeria; Fibroblast; Glycosylation; Lectin (Clark, M.A. (1270) 142)

Membrane protein; Spin labeling; Hyperoxia; Protein oxidation; Free radical (Hensley, K. (1270) 203)

Mitochondrial medicine; Luft's disease; mtDNA (Luft, R. (1271) 1)

Mitochondrial function; Proton leakage; Cardiolipin (Ames, B.N. (1271) 165)

Mitochondrion; Mutation; Superoxide; Apoptosis; Complex I (Cortopassi, G. (1271) 171)

mtDNA; Point mutation; Oxygen free radical damage; Deletion; Degenerative disease; Apoptosis (Ozawa, T. (1271) 177)

Common deletion; Electron transport chain; GFAP; Glial fibrillary acidic protein; Mitochondrion; mtDNA (Chen, X. (1271) 229)

Maillard reaction; Lung; Pentosidine; Fluorescence; Collagen (Bellmunt, M.J. (1272) 53)

Agonist
A_1 agonist activity; Chlorocyclopentyladenosine; Membrane potential; Bisoxonol monitoring; Potassium ion; Cerebrocortical nerve ending (Amoroso, S. (1239) 67)

Ah receptor
CYP1A2; Cytochrome P-450; Enzyme induction; Caffeine (Ayalogu, E.O. (1272) 89)

AIDS
Phospholipase A_1; Membrane lipid; (Molliicutes); (*Mycoplasma penetrans*) (Salman, M. (1235) 369)

Fusion; Lysis; Erythrocyte; HIV; HIV glycoprotein 41 000 (gp41); Membrane; Red cell; Peptide; Melittin; Calcium ion (Mobley, P.W. (1271) 304)

anti-AIDS drug
HIV-1 proteinase; Hydroxyquinone; Alizarin; Competitive inhibition (Brinkworth, R.I. (1253) 5)

Air/water interface
Phospholipase A_2; Domain formation; Fluorescence microscopy; Surface potential; Monolayer; Asymmetric lipid; Fatty acid (Maloney, K.M. (1235) 395)

A-kinase anchoring protein
cyclic AMP-dependent protein kinase; Parietal cell; Acid secretion (Dransfield, D.T. (1269) 215)

Alamethicin
ATPase, Ca^{2+}-; Calcium ion transport; Oxidative stress; Iron; Ascorbate; Ferrylhemoglobin; (Lung); (Microsome) (Menshikova, E.V. (1228) 165)

β-Alanine
Biological transport; Amino acid; Chloride; (Guinea-pig); (Rat); (Rabbit) (Munck, L.K. (1235) 93)

[D-Ala^1] Peptide T amide
Degradation; In situ perfusion; Chronical loop perfusion; BBMV (Su, S.-F. (1245) 62)

Albers–Post model
ATPase, Na^+/K^+-; ATP hydrolysis; Phosphoenzyme (Schwarzbaum, P.J. (1233) 33)

Albumin
Phospholipid; Detergent; Mixed micelle; Phospholipid; Lipid solubility; Aggregation (Meyuhas, D. (1234) 203)

Bile salt; Interaction; Fluorescence; Binding; Amino acid (Farruggia, B. (1252) 59)

VLDL; LDL; HDL; Centrifugal field; Table-top ultracentrifuge (Pietzsch, J. (1254) 77)

LDL; Copper-mediated oxidation; HDL; Lp A-I; Lp A-I:AII (Decossin, C. (1255) 31)

Hemin; LDL; Erythrocyte membrane; Oxidation (Miller, Y.I. (1272) 119)

Albumin binding
Bilirubin; Biliverdin; Human serum albumin; Bovine serum albumin; Circular dichroism; Voltammetric reduction (Claret, J. (1243) 221)

Albumin-binding protein
Protein MAG; Real-time biospecific interaction analysis (BIA); (*Streptococcus dysgalactiae*) (Jonsson, H. (1249) 65)

Albumin-bound bilirubin
LDL; Oxidation; Inhibition; Bilirubin; Transition metal (Hulea, S.A. (1259) 29)

Alcohol
Phospholipid bilayer; Interdigitation; Molecular geometry; DSC; Electron microscopy (Mason, J.T. (1236) 65)

Mitochondrion; Calcium; Oxidative phosphorylation; NAD-linked dehydrogenase (Li, H.L. (1236) 306)

GABA/benzodiazepine receptor; γ-Aminobutyric acid; Epilepsy; cDNA; RFLP; Gene mapping; (Mouse) (Kamatchi, G.L. (1261) 134)

Alcohol dehydrogenase
Bilayer lipid membrane; Unstirred layer; pH microelectrode; pH profile; Nigericin (Antonenko, Y.N. (1235) 57)

Alcohol dehydrogenase, short chain
Glycosylation; 11β-Hydroxysteroid dehydrogenase; Site-directed mutagenesis (Agarwal, A.K. (1248) 70)

Alcohol treatment
Antenna; Chlorosome; Morphology; Hydrodynamic diameter; (Green bacterium) (Wang, Z.-Y. (1232) 187)

Aldehyde
LDL; Lipid peroxidation; Hydroperoxide; NMR (Lodge, J.K. (1256) 130)

Alveolar macrophage; Nitrogen dioxide; 4-Hydroxynonenal; Glycolaldehyde (Robison, T.W. (1256) 334)

Aldehyde oxidoreductase
Molybdenum; Hydroxylase; Iron-sulfur center; Resonance Raman; EPR; (*D. gigas*) (Zhelyaskov, V. (1252) 300)

Aldehyde reductase
Monoamine oxidase; Radiochemical assay; Outer membrane; Contact site; Mitochondrion (Wojtczak, A.B. (1229) 249)

Aldose reductase; Enzyme; Osone; Reduction; Kinetics (Feather, M.S. (1244) 10)

Aldo/keto reductase
Dihydrodiol dehydrogenase; Reaction mechanism; Indanol; Bile acid (Nanjo, H. (1244) 53)

Aldolase
(*S*)-3-Chlorolactaldehyde; 1,6-Dichloro-1,6-dideoxy-D-fructose; Glyceraldehyde-3-phosphate dehydrogenase; Glycolytic inhibition; (Boar spermatozoa) (Jones, A.R. (1244) 141)

Fish; Sea bream; (*Sparus aurata*) (Llewellyn, L. (1263) 75)

Aldose reductase
Aldehyde reductase; Enzyme; Osone; Reduction; Kinetics (Feather, M.S. (1244) 10)

Site-directed mutagenesis; Inhibition; Kinetics; Polyol pathway; Diabetes; Rat lens (Carper, D.A. (1246) 67)

Substrate specificity; 4-Hydroxynonenal; Detoxification; Diabetic complication (Vander Jagt, D.L. (1249) 117)

Aldosterone
A6 cell; Sodium ion transport; Chloride permeability (Devuyst, O. (1235) 443)

Glucocorticoids; Kidney; NAD; NADP (Alfaidy, N. (1243) 461)

***ALG7* gene**
N-glycosylation; mRNA; GPT activity (Kukuruzinska, M.A. (1247) 51)

Alizarin
HIV-1 proteinase; Hydroxyquinone; Competitive inhibition; anti-AIDS drug (Brinkworth, R.I. (1253) 5)

Alkali cation transport kinetics
Cryptand; Competitive transport selectivity; pH; Lipid membrane (Loiseau, A. (1235) 21)

Ionizable mobile carrier; Competitive transport selectivity; pH; Temperature; Lipid membrane (Loiseau, A. (1238) 107)

Alkaline
Sphingomyelinase; Intestine; Bile salt (Duan, R.-D. (1259) 49)

Alkaline phosphatase
ATPase; Acid phosphatase; Phosphatase; ATP degradation; Ribonucleotide; (*A. niger*) (Elzainy, T.A. (1239) 91)

CD; Denaturation; FTIR; Secondary structure; Protein folding (De La Fournière, L. (1248) 186)

Alkalinization
pH_i; pH, cytosolic; Enterocyte; Sodium ion-independent alkalinization (Peral, M.J. (1233) 84)

Alkaliphile
Cytochrome; Respiration; Oxidative phosphorylation (Hicks, D.B. (1229) 303)

Catalase; Hydrogen peroxide; pH (Hicks, D.B. (1229) 347)

Alkaloid
Diamine oxidase; Inhibition; (Porcine); (Kidney) (Cheng, E. (1253) 189)

Alkyl adduct
Ethylnitrosourea; DNA damage; DNA repair; Plasmid vector; Restriction enzyme; Restriction protection; Immunoprobing; (*E. coli*) (Musarrat, J. (1263) 201)

Alkylation
Muscle; Essential sulfhydryl; Myosin heavy chain (Ehrlich, A. (1232) 13)

Alkyl-dihydroxyacetone phosphate synthase
Dihydroxyacetone phosphate acyltransferase; Microbody; Glycosome; Subcellular localization; (*T. brucei*) (Zomer, A.W.M. (1257) 167)

Alkylglycerol
Arachidonic acid; Madin-Darby canine kidney; Monoglyceride; Phorbol myristate acetate; Protein kinase C (Robinson, M. (1254) 361)

Alkylhydrazine
Free radical; Spin trapping; Cytochrome *P*-4502E1 (Albano, E. (1243) 414)

Alkyltransferase
Immuno-analysis; Enzyme-immunoassay; Immunoslot blot; Ethylnitrosourea; DNA damage; O^4-Ethylthymine; DNA repair (Musarrat, J. (1260) 276)

Allelic variant
Interferon-α2; Transcription; Peptide map (Linge, C. (1264) 363)

Alloalbumin
Carbohydrate structure; Glycoprotein; *N*-Glycosylation; Disulfide bond (Sakamoto, Y. (1252) 209)

Allophycocyanin
Cyanobacterium; Energy transfer; L_{CM}; Photosystem; Phycobiliprotein (Ajlani, G. (1231) 189)

Allopurinol
Anoxia; Reoxygenation; Cell injury; Lactic dehydrogenase; Oxygen free radical; Superoxide; Antimycin; Diphenyleniodonium; Superoxide dismutase; Tetramethylpiperidine-1-oxyl (Caraceni, P. (1268) 249)

Allosteric activation
Glycogen synthase; Insulin; Glucose 6-phosphate; Skeletal muscle (Villar-Palasi, C. (1244) 203)

Allosteric enhancer
A_1 adenosine receptor; PD 81,723; R–G complex (Bhattacharya, S. (1265) 15)

Allosteric regulation
Calcium; Antigen-antibody interaction; Cyclic nucleotide; Radioimmunoassay (Patrinellis, A.C. (1243) 143)

Allosteric regulatory site
Sodium ion/phosphate cotransporter; Phosphate transport; pH effect; Substrate effect; Divalent phosphate, intervesicular; Brush-border membrane; (Intestine) (Peerce, B.E. (1239) 1)

Allostery
Hemoglobin; Hemoglobin variant; Oxygen affinity; (Human) (Kister, J. (1246) 34)

19-Allylaminoherbimycin A
Herbimycin A; Glutathione; Granulocyte-macrophage colony-stimulating factor; Growth inhibition; U937 cell (Makishima, M. (1272) 199)

Alpha helix
Amphipathic helix; Antigenicity; Membrane protein; Pore-forming activity; Spiralin; Topology (Brenner, C. (1235) 161)

Structure determination; Amphipathic helix; Spiralin; NMR; Distance geometry; Annealing (Bondon, A. (1235) 169)

Alpha-oxidation
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Δ^{16}-Alphaxalone
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Amino acid substitution, His-26 to Val
Cytochrome *c*; Amino acid substitution, His-33 to Phe; Double mutant; Local stability; Global stability (Qin, W. (1252) 87)

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Glucocorticoid receptor; Transcriptional factor; Oxidant; DNA–protein interaction (Esposito, F. (1260) 308)

Active oxygen species; Inducible NO synthase; Nitric oxide (Mikoyan, V.D. (1269) 19)

Ubiquinone; Prooxidant; Free radical (Ernster, L. (1271) 195)

Neuromelanin; Free-radical scavenger; Iron-ion sequestration; EPR-spin trapping; Fenton reaction (Zaręba, M. (1271) 343)

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Water-soluble antioxidant; Trolox; Vitamin E; Lipid hydroperoxide (Barclay, L.R.C. (1237) 77)

Antioxidant enzyme
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Antioxidative activity
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Anti-peptide antibody
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Antiport
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Antiport model
Uncoupled transport; Mutagenesis; Protein modification; Vectorial coupling; Channel (Krupka, R.M. (1236) 1)

α-1-Antiproteinase
α-1-Antitrypsin; Molecular phylogeny; Rodent evolution; (Syrian hamster) (Nakatani, T. (1263) 245)

Antisense RNA
Lipoxygenase; Protoplast; Electroporation; RNA; (Lentil); (*Lens culinaris*) (Maccarrone, M. (1259) 1)

α-1-Antitrypsin
α-1-Antiproteinase; Molecular phylogeny; Rodent evolution; (Syrian hamster) (Nakatani, T. (1263) 245)

Antitumor drug
Diarylsulfonylurea; Sulfonylurea; Binding protein; (HeLa cell) (Morré, D.J. (1236) 237)

Diarylsulfonylurea; Sulfonylurea; NADH oxidase; Plasma membrane; HeLa cell; Hepatoma; (Rat liver) (Morré, D.J. (1240) 11)

NADH oxidase activity; Inhibition; Sulfonylurea; Plasma membrane; HeLa cell (Morré, D.J. (1240) 201)

Diarylsulfonylurea; Sulfonylurea; Binding protein; HeLa cell (Morré, D.J. (1244) 133)

Antitumor protein
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Multinuclear magnetic resonance; Membrane fusion; NMR (Dentino, A.R. (1235) 213)

AP-1
TNF-α; Urokinase promoter; PEA3 (Lengyel, E. (1268) 65)

Ap_4A
Diadenosine polyphosphate; Diinosine polyphosphate; Adenylate deaminase; (*Helix pomatia*) (Guranowski, A. (1243) 78)

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DNA polymerase; Resistance to arabinosyl nucleotide; 3′ Exonuclease activity; (Chinese hamster ovary cell) (Fehér, Z. (1263) 141)

AP-1-inducible gene expression
Hypoxia; AP-1 factor activation (Bandyopadhyay, R.S. (1264) 72)

Apo A-I
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Apo B
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In vitro; Primary human hepatocyte; Icosapentaenoic acid; Oleic acid; Triacylglycerol; Phospholipid (Lin, Y. (1256) 88)

Apo E
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Apo I
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Magnesium; Gene expression; Lipoprotein; Liver; (Rat) (Nassir, F. (1257) 125)

Lipid–protein complex; Molecular hydrophobicity potential; Hydrophobicity, protein; Amphipathicity; Helix; Interaction energy (Lins, L. (1258) 10)

Apolipoprotein(a)
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Apolipoprotein A-I
HDL; Amphipathic helix; Protein–lipid interaction; Reconstituted lipoprotein; Mutant apo A-I (Brouillette, C.G. (1256) 103)

Polymorphism; Gene regulation; *cis*-regulatory element (Sorci-Thomas, M. (1256) 387)

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Aging; Gene expression; Lipoprotein (Shah, G.N. (1259) 277)

HDL; Macrophage; Apolipoprotein A-II; Cholesterol efflux (Skarlatos, S.I. (1270) 19)

Apolipoprotein A-II
HDL; Macrophage; Apolipoprotein A-I; Cholesterol efflux (Skarlatos, S.I. (1270) 19)

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Apolipoprotein E gene
Nuclear factor; Transcriptional regulatory element; Gel mobility shift assay; Protein binding domain; (Mouse) (Paik, Y.-K. (1262) 124)

Apolipoprotein H
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Apoptosis
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Endonuclease; DNA fragmentation (Sokolova, I.A. (1266) 135)

Dopamine; Thymocyte; Programmed cell death; Flow cytometry; X-ray microanalysis (Offen, D. (1268) 171)

Clusterin; Protein kinase C; Steroid hormone; RU 486 (Flach, R. (1268) 325)

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Oncogene; Chemoresistance; Prostate tumor (Sinha, B.K. (1270) 12)

Oxidant; Thymocyte (Slater, A.F.G. (1271) 59)

Aging; Mitochondrion; Mutation; Superoxide; Complex I (Cortopassi, G. (1271) 171)

mtDNA; Point mutation; Oxygen free radical damage; Deletion; Aging; Degenerative disease (Ozawa, T. (1271) 177)

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Aqueous polymer
Chloroplast; Grana margin; Light harvesting complex II; Photosystem; Partitioning; Ferredoxin:NADP oxidoreductase; (Spinach thylakoid) (Wollenberger, L. (1230) 10)

Aqueous two-phase partitioning
Thylakoid membrane organization; Grana margin; Membrane domain; Protein phosphorylation; LHC II protein kinase (Stefánsson, H. (1231) 323)

Arachidonic acid
Inflammation; Atherosclerosis (Freire-Moar, J. (1254) 112)

Lipoxygenase; Anandamide; Arachidonylethanolamide; Cannabinoid (Ueda, N. (1254) 127)

Docosahexaenoic acid; Norepinephrine stimulation; (Rat pineal gland) (Delton, I. (1254) 147)

Alkylglycerol; Madin-Darby canine kidney; Monoglyceride; Phorbol myristate acetate; Protein kinase C (Robinson, M. (1254) 361)

Cytochrome *P*-450; Epoxyicosatrienoic acid; Cerebral blood flow; Atherosclerosis; Hypertension (VanRollins, M. (1256) 263)

p-Aminobenzoic acid; Fatty acid; Beta-oxidation; Lymphoid cell; Jurcat cell (Barbieri, B. (1257) 157)

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Phospholipase C; Bradykinin; Protein kinase; (MDCK-D1 cell) (Kennedy, C.R.J. (1258) 206)

20-Hydroxyarachidonic acid; Retinoic acid; Peroxisome proliferation; Fatty acyl-CoA oxidase; Catalase; Synergistic effect; Retinoid X receptor; (Morris Hepatoma 7800C1 cell) (Sohlenius, A.-K. (1258) 257)

Inflammation; Atherosclerosis; Lipogenase gene; (Mouse) (Willems van Dijk, K. (1259) 4)

Mead acid; Icosapentaenoic acid; Phospholipid; Essential fatty acid; (Rat hepatocyte) (Retterstøl, K. (1259) 82)

Prostanoid; Rhodopsin-type receptor; GTP-binding protein; Alternative splicing (Negishi, M. (1259) 109)

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$cPLA_2$; Oxidant; Phosphorylation; Smooth muscle cell (Rao, G.N. (1265) 67)

Arachidonic acid metabolism
Icosanoid; Gene expression; 5-Lipoxygenase; Mast cell; Thromboxane (Macchia, L. (1257) 58)

Arachidonylethanolamide
Lipoxygenase; Arachidonic acid; Anandamide; Cannabinoid (Ueda, N. (1254) 127)

Archaea
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ADP-ribose; Thermostability (Faraone-Mennella, M.R. (1246) 151)

Archaeal elongation factor 1β
Exchange factor; Codon usage; (*S. solfataricus*) (Arcari, P. (1263) 86)

Archaebacterial
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Archaebacterium
Phototaxis; Haloalkalophile; Halobacterium; Phoborhodopsin; (*N. pharaonis*) (Tomioka, H. (1234) 261)

Ether lipid; Glycerol lipid; Phosphatidylglycerol; Phosphatidylethanolamine; (*Methanosarcina barkeri*) (Nishihara, M. (1254) 155)

Archaeon
Aromatic aminotransferase; Hyperthermophile; Enzyme purification; Enzyme characterization; Anaerobic bacterium; (*P. furiosus*) (Andreotti, G. (1247) 90)

ATPase; Catalytic subunit; Amino acid sequence; ATP hydrolysis; Inhibitor; (*H. volcanii*) (Steinert, K. (1249) 137)

Archaeon vs. bacterium
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Arginase
Molecular cloning; cDNA; Argininosuccinate lyase; Metamorphosis; (*R. catesbeiana*) (Iwase, K. (1260) 139)

Arginine
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Pyruvate dehydrogenase complex; α-Keto acid dehydrogenase complex; Active site; Chemical modification (Eswaran, D. (1252) 203)

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Arginine kinase
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Arginine vasopressin
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Argininosuccinate lyase
Molecular cloning; cDNA; Arginase; Metamorphosis; (*R. catesbeiana*) (Iwase, K. (1260) 139)

δ-Crystallin; CR1; Gene expression; Lens; Enhancer; (Duck) (Li, X. (1261) 25)

Aromatic amine dehydrogenase
Quinoprotein; Oxidative deamination; Kinetic isotope effect (Hyun, Y.-L. (1251) 198)

Aromatic aminotransferase
Hyperthermophile; Enzyme purification; Enzyme characterization; Archaeon; Anaerobic bacterium; (*P. furiosus*) (Andreotti, G. (1247) 90)

Aromatic polyene antibiotic
Amphotericin B; Antibiotic; Vacidin A; Erythrocyte; Hemolysis; Ionic selectivity (Cybulska, B. (1240) 167)

Arsenate
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Arsono compound
Amino acid; Caco-2 cell; Carrier-mediated transport; pH and sodium dependence; Structure–activity relationship (Nicklin, P.L. (1269) 176)

Arterial material
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Arterial smooth muscle cell
Atherosclerosis; Cell division; Growth; Platelet-derived growth factor; Lipoprotein; Fibroblast (Björkerud, S. (1268) 237)

Arterial tissue chondroitin sulfate proteoglycan variant
LDL binding affinity; LDL metabolism; (Macrophage) (Srinivasan, S.R. (1272) 61)

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Ascorbate
ATPase, Ca^{2+}-; Calcium ion transport; Oxidative stress; Iron; Ferrylhemoglobin; Alamethicin; (Lung); (Microsome) (Menshikova, E.V. (1228) 165)

Monodehydroascorbate; Ascorbate peroxidase; Oxygen photoreduction; EPR (Grace, S. (1229) 155)

ATPase, Na^+/K^+-; Etoposide; Phenoxyl radical; Sulfhydryl group; Antioxidant; EPR (Kurella, E.G. (1232) 52)

Oxidized LDL; Dehydroascorbate; Copper; Iron; Lipid peroxidation (Retsky, K.L. (1257) 279)

Glutathione deficiency; Buthionine sulfoxide; Reactive oxygen species (Meister, A. (1271) 35)

Ascorbate oxidase
Laccase; Type 3 copper; Trinuclear copper center; EPR (Sakurai, T. (1248) 143)

Ascorbate peroxidase
Ascorbate; Monodehydroascorbate; Oxygen photoreduction; EPR (Grace, S. (1229) 155)

Ascorbate recycling
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Ascorbic acid
Ascorbate recycling; Nitroblue tetrazolium; Transmembrane oxidoreductase; Erythrocyte; (Human) (May, J.M. (1238) 127)

Degradation; Elastin; Enzymatic cleavage (Hayashi, A. (1244) 325)

Asparagine
Hepatocyte; Gluconeogenesis; Ethanol oxidation; Redox state; Ammonia; (Rat) (Efthivoulou, M.-A. (1244) 303)

D-Aspartate
D-Glutamate; Gender difference; D-Aspartate oxidase (Kera, Y. (1243) 282)

Aspartate aminotransferase
Tricarboxylic acid cycle; ^{13}C-NMR; Heart; (Rat) (Weiss, R.G. (1243) 543)

Aspartate/glutamate carrier
Transport; Mitochondrion; Reconstitution; Energetics; Kinetics; Uncoupled transport; Facilitated transport (Herick, K. (1238) 63)

D-Aspartate oxidase
D-Glutamate; D-Aspartate; Gender difference (Kera, Y. (1243) 282)

Aspartate transaminase
Glutamine; Platelets; Amino acid uptake; Glutaminase I; Mitochondria; Glutamate dehydrogenase (Vasta, V. (1243) 43)

Aspartic acid residue
Sodium ion/proton antiporter; *nhaA* gene; Marine bacterium; (*V. alginolyticus*) (Nakamura, T. (1230) 170)

Aspirin
Phospholipase A_2; Elicited peritoneal macrophage; Prostaglandin E_2; Leukotriene B_4; Cyclooxygenase; Transformation growth factor; Indomethacin (Bolognese, B. (1256) 201)

Assay condition
NADH dehydrogenase; Flavoprotein; Electron transfer; Hexammineruthenium(III); Steady-state kinetics; (Bovine heart mitochondria) (Gavrikova, E.V. (1230) 23)

Assembly
ATP synthase; Mitochondrial disease; (Cultured human cell) (Nijtmans, L.G.J. (1272) 190)

Astrocyte
Thromboxane A_2 receptor; cDNA cloning; Glial cell; (Rat) (Kitanaka, J.-i. (1265) 220)

Asymmetric lipid
Phospholipase A_2; Domain formation; Fluorescence microscopy; Surface potential; Monolayer; Air/water interface; Fatty acid (Maloney, K.M. (1235) 395)

Atherogenesis
Lipoprotein; LDL; Oxidized LDL; Endothelial cell; Toxicity; Phospholipid hydrolysis (Schmitt, A. (1256) 284)

Atherosclerosis
Inflammation; Arachidonic acid (Freire-Moar, J. (1254) 112)

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HDL; Lipid peroxidation; γ-Radiolysis; Oxygenated free radical; Fluorescence polarization; Cholesterol efflux (Bonnefont-Rousselot, D. (1255) 23)

Fish oil; Leukotriene; HETE; Prostaglandin; Cholesterol (Surette, M.E. (1255) 185)

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Arachidonic acid; Cytochrome *P*-450; Epoxyicosatrienoic acid; Cerebral blood flow; Hypertension (VanRollins, M. (1256) 263)

Reverse cholesterol transport; Cholesterol efflux; Cholesterol uptake; Smooth muscle cell; Macrophage; HepG2 cell (Stein, O. (1257) 174)

Foam cell; Cholesterol metabolism (Greenspan, P. (1257) 257)

Ubiquinol-10; LDL; Lipid peroxidation; Antioxidant; α-Tocopherol (Kontush, A. (1258) 177)

Obesity; Insulin resistance; Hypertriglyceridemia (Russell, J.C. (1258) 199)

Inflammation; Arachidonic acid; Lipogenase gene; (Mouse) (Willems van Dijk, K. (1259) 4)

Hypercholesterolemia; Acyl-CoA:cholesterol acyltransferase; (Rabbit) (Matsuo, M. (1259) 254)

Basic fibroblast growth factor; Fibroblast growth factor receptor; Smooth muscle cell (Van Neck, J.W. (1261) 210)

Cell division; Growth; Platelet-derived growth factor; Lipoprotein; Arterial smooth muscle cell; Fibroblast (Björkerud, S. (1268) 237)

Apolipoprotein H; Survival factor; Endothelial cell; Serum-free medium (Cai, G. (1269) 13)

Advanced glycosylation end product; Diabetes; Oxidation; Lipid peroxide; (Human) (Dobrian, A. (1270) 26)

LDL; LDL subspecies; Cholesterol esterase; Cardiovascular risk factor (Brodt-Eppley, J. (1272) 69)

Atherothrombosis
Lipoprotein(a); Apolipoprotein(a); Kringle; Polymorphism, apo A; Mutation (Scanu, A.M. (1256) 1)

Atomic absorption
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Atomic force microscopy
Chlorosome; Energy transfer; Hexanol; Ultrastructure; Photosynthesis; Bacteriochlorophyll (Zhu, Y. (1232) 197)

Vesicle fusion; Lipid layer; Langmuir-Blodgett film; Protein immobilization; Quartz crystal microbalance (Vikholm, I. (1233) 111)

Atomic structure
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[^{3}H]Atipamezole
α_2-Adrenoceptor subtype; Ligand binding; [^{3}H]Rauwolscine; [^{3}H]RX 821002; Recombinant cell line (Halme, M. (1266) 207)

ATP
Actin filament; Heavy meromyosin; Motility assay, in vitro; Energy production, unexplained (Kellermayer, M.S.Z. (1229) 89)

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Auxin; Calcium; Light scattering; Protoplast; Herbicide resistance (Deshpande, S. (1244) 69)

Phosphocreatine; Hypoxia; Cyanide; (m. soleus) (Katz, A. (1244) 229)

Lens; Protein–ligand binding; α-Crystallin; Intrinsic tryptophan fluorescence spectroscopy (Palmisano, D.V. (1246) 91)

ATP activation
Thymidine kinase 1, cytosolic; Regulation; Azidothymidine; Nucleoside analog (Munch-Petersen, B. (1250) 158)

ATPase
ATPase, F_1-; Cys-/Trp-less mutant; F_1; Thermophile; Subunit complex (Matsui, T. (1231) 139)

Reconstitution; Plasma membrane; (*N. crassa*) (Vigneron, L. (1236) 95)

Acid secretion; Disulfide bond; Tryptic sensitivity; Conformational stability (Tyagarajan, K. (1236) 105)

Acid phosphatase; Alkaline phosphatase; Phosphatase; ATP degradation; Ribonucleotide; (*A. niger*) (Elzainy, T.A. (1239) 91)

Ubiquitin; Proteinase; Proteasome; Multicatalytic; Muscle; (Rabbit) (Akaishi, T. (1245) 331)

Archaeon; Catalytic subunit; Amino acid sequence; ATP hydrolysis; Inhibitor; (*H. volcanii*) (Steinert, K. (1249) 137)

ATPase activity
CDC48p protein; Inhibition; Cell cycle protein; *N*-Ethylmaleimide; (*S. cerevisiae*) (Fröhlich, K.-U. (1253) 25)

ATPase, Ca^{2+}-
Calcium ion transport; Oxidative stress; Iron; Ascorbate; Ferrylhemoglobin; Alamethicin; (Lung); (Microsome) (Menshikova, E.V. (1228) 165)

Ion transport; Active transport; Electrostatics; Binding site asymmetry (Hao, M.-H. (1234) 5)

Phospholipid; detergent; Sarcoplasmic reticulum (Ding, J. (1234) 166)

Phosphorylation; Vanadate-activated phosphorylation; Calcium-ion-dependent phosphoenzyme; Phosphoenzyme (Romero, P.J. (1235) 155)

Sarcoplasmic reticulum; Membrane composition; ST-EPR; Mass spectrometry; Aging; EPR (Krainev, A.G. (1235) 406)

Erythrocyte; Calmodulin; Melittin; Heme (Zaidi, A. (1236) 114)

Pancreatic β-cell; Beta cell; Islet of Langerhans; Phosphoenzyme; Antibody (Váradi, A. (1236) 119)

Modulation by EGTA; Activation by EGTA; EGTA; Erythrocyte; (Human) (Romero, P.J. (1240) 115)

ATPase, (Ca^{2+} + Mg^{2+})-
Endoplasmic reticulum; Photoaffinity labeling; 8-azido-ATP; (Pancreas) (Webb, R. (1233) 1)

ATPase, Ca^{2+},Mg^{2+}-
ATPase, Mg^{2+}-; t-Tubule; Skeletal muscle; DSC (Ortega, A. (1233) 7)

ATPase, F-type
Vacuolar ATPase; Vacuole; Proton pump; Gamma subunit; (*Neurospora crassa*) (Bowman, E.J. (1237) 95)

ATPase, F_1-
Mitochondrial F_1-ATPase; Pyrophosphate binding site; Photoaffinity (Michel, L. (1228) 67)

Photoaffinity labeling; NAP_3-2-azido-ADP; Tight binding; Cooperativity; Non-catalytic site; Hysteretic inhibition (Edel, C.M. (1229) 103)

ATP binding domain; Alpha subunit; Subunit interaction (Miyauchi, M. (1229) 225)

ATPase; Cys-/Trp-less mutant; F_1; Thermophile; Subunit complex (Matsui, T. (1231) 139)

Cooperativity; Kinetics (Kato, Y. (1231) 275)

Mitochondrion; Cytochrome-*c* oxidase; Mitochondrial disease; (Cultured human cell) (Nijtmans, L.G.J. (1265) 117)

ATPase, F_1-, inhibitor
DNA sequence; Pseudogene; (Rat) (Samuel, D.S. (1230) 81)

ATPase, F_1F_0-
Calcium; Inhibitory protein; Adenine nucleotide translocase; Crabtree effect; (Ehrlich ascites tumor) (Bogucka, K. (1228) 261)

ATPase, F_0F_1-
Enzyme activation; Detergent; ATP hydrolysis; Proton gradient; (Plant mitochondrion) (Chernyak, B.V. (1229) 121)

Regulation; γ Subunit; Cyanobacterium (Steinemann, D. (1230) 80)

ATPase, H^+-
HPLC; Adenine nucleotide; Binding site; Kinetics; ATP hydrolysis (Pezennec, S. (1231) 98)

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ATPase, K^+-, inhibitor
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ATPase, Mg^{2+}-
Calcium ion; Sodium ion; ATPase, K^+-, inhibitor; Calcium ion pump; Sarcoplasmic reticulum (Ricote, M. (1232) 217)

ATPase, Ca^{2+},Mg^{2+}-; t-Tubule; Skeletal muscle; DSC (Ortega, A. (1233) 7)

ATPase, Na^+-
DCCD; Amiloride; Inhibitor, Na^+; Ion transport; (*A. woodii*) (Spruth, M. (1229) 96)

Sodium pump; Sodium ATPase; (*Saccharomyces cerevisiae*); (*Schizosaccharomyces pombe*) (Bañuelos, M.A. (1229) 233)

DNA sequence; Acetogenic bacterium; (*A. woodii*) (Forster, A. (1229) 393)

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ATP hydrolysis; Phosphoenzyme; Albers–Post model (Schwarzbaum, P.J. (1233) 33)

Membrane topology; Iodination (Vladimirova, N.M. (1233) 175)

Sodium/potassium ion pump; Sodium–sodium ion exchange (Blostein, R. (1234) 1)

Dimethylsulfoxide; Phosphoenzyme from P_i; Ouabain binding (Fontes, C.F.L. (1235) 43)

Electrogenic transport; Reconstitution; Uncoupled sodium ion efflux; Sodium–sodium ion exchange; Hydrophobic ion; Dephosphorylation; Membrane potential (Cornelius, F. (1235) 183)

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Phosphorylation; Dephosphorylation; Reconstitution; Cholesterol (Cornelius, F. (1235) 205)

Brain; Isoenzyme; Streptozotocin-induced diabetes (Vér, Á. (1237) 143)

Sodium/potassium pump; Sodium ion; Ouabain; Solubilization; Octaethylene glycol *n*-dodecyl ether (Asami, M. (1240) 55)

Promoter; In vivo footprinting (Nomoto, M. (1264) 35)

ATPase, Na^+/K^+-, isolated
Spontaneous hypertension; Sodium; Ouabain; Mercury; (Hypertensive rat); (Brain); (Kidney) (Anner, B.M. (1270) 95)

ATPase, P-type
Major intrinsic protein (MIP); Protein; DNA sequence; Cyanobacterium; (*Synechococcus*) (Kashiwagi, S. (1237) 189)

ATPase, V-
Gene; Intron; Bioenergetics; (*C. caldarium*) (Ziegler, K. (1230) 202)

Intron; Promoter; (*G. lamblia*) (Hilario, E. (1238) 94)

ATP binding domain
ATPase, F_1-; Alpha subunit; Subunit interaction (Miyauchi, M. (1229) 225)

ATP-binding site
Peptide analysis; Glycine-rich loop; Recombinant expression; Creatine kinase; Autophosphorylation (Hemmer, W. (1251) 81)

ATP biosynthesis
Purine nucleotide/insulin secretion; GTP biosynthesis; (Rat pancreatic islet) (Meredith, M. (1266) 16)

ATP degradation
ATPase; Acid phosphatase; Alkaline phosphatase; Phosphatase; Ribonucleotide; (*A. niger*) (Elzainy, T.A. (1239) 91)

ATP hydrolysis
ATPase, F_0F_1-; Enzyme activation; Detergent; Proton gradient; (Plant mitochondrion) (Chernyak, B.V. (1229) 121)

HPLC; ATPase, H^+-; Adenine nucleotide; Binding site; Kinetics (Pezennec, S. (1231) 98)

ATPase, Na^+/K^+-; Phosphoenzyme; Albers–Post model (Schwarzbaum, P.J. (1233) 33)

Archaeon; ATPase; Catalytic subunit; Amino acid sequence; Inhibitor; (*H. volcanii*) (Steinert, K. (1249) 137)

ATP receptor
Potassium ion channel, Ca^{2+}-activated; Inositol 1,4,5-trisphosphate; Calcium ion release (Peres, A. (1265) 33)

ATP synthase
ϵ subunit; Topology; Cross-linking; Coupling (Aggeler, R. (1230) 62)

Mitochondrion; Complex I (Walker, J.E. (1271) 221)

Mitochondrial encephalomyopathy; mtDNA; NARP mutation; Heteroplasmy; F_o-subunit (Houštěk, J. (1271) 349)

Liver regeneration; Mitochondrion; Oxidative phosphorylation (Guerrieri, F. (1272) 95)

Assembly; Mitochondrial disease; (Cultured human cell) (Nijtmans, L.G.J. (1272) 190)

ATP synthase, H^+-
Mitochondrion; Inhibitor protein; Sequence homology; (Potato) (Polgreen, K.E. (1229) 175)

ATP synthesis
Respiration; Potassium ion transport; Phosphate transport; (Yeast mitochondria) (Manon, S. (1231) 282)

Atrial natriuretic peptide
Proteinase; Tissue kallikrein; Peptide substrate; (Rat) (Moreau, T. (1249) 168)

Attenuated total reflection
Mid-FTIR; FTIR; Principal component regression; Enzyme kinetics; β-Fructosidase (Cadet, F. (1246) 142)

Autoimmune disease
Mitochondrion; Molecular mimicry; Mitochondrial antigen (Baum, H. (1271) 111)

Autoinduction
TGF-β1; Inhibition of cell proliferation; Early gene response; Protein kinase C; Human breast adenocarcinoma cell (Lafon, C. (1266) 288)

Autolysis
Subtilisin; Autoproteolysis; Sapstain; (*Ophiostoma*) (Abraham, L.D. (1245) 76)

Proteolytic enzyme; Subtilisin; Particle; Surface; Inactivation (Maste, M.C.L. (1252) 261)

Autophosphorylation
ATP-binding site;. Peptide analysis; Glycine-rich loop; Recombinant expression; Creatine kinase (Hemmer, W. (1251) 81)

Pepsinogen secretion; Calcium/calmodulin-dependent protein kinase II; Monolayer culture; Calcium ion, intracellular (Okayama, N. (1268) 123)

Autoproteolysis
Calpain; Cell membrane; Down regulation (Inomata, M. (1235) 107)

Subtilisin; Autolysis; Sapstain; (*Ophiostoma*) (Abraham, L.D. (1245) 76)

Auxin
Chlorsulfuron; Herbicide; NADH oxidase; Plasma membrane; Plant growth; (Soybean) (Morré, D.J. (1240) 5)

Calcium; ATP; Light scattering; Protoplast; Herbicide resistance (Deshpande, S. (1244) 69)

A10 vascular smooth muscle cell
Endothelin; Receptor; Metabolism (Gandhi, C.R. (1269) 290)

Axolotl
c-ski; Proto-oncogene (Ludolph, D.C. (1260) 102)

Chaperonin; *t*-complex protein 1 (TCP-1); Embryonic expression; Embryogenesis (Sun, H.B. (1260) 157)

Azide
Electrogenic ion transport; Metabolic inhibition; Cyanide; Antimycin A; Turgor pressure regulation (Wang, J. (1233) 185)

8-azido-ATP
Endoplasmic reticulum; ATPase, $(Ca^{2+} + Mg^{2+})$-; Photoaffinity labeling; (Pancreas) (Webb, R. (1233) 1)

Azidophthalonate
Oxoglutarate carrier; Photoaffinity labeling; Transport; Mitochondrion; (Bovine heart) (Stipani, I. (1234) 149)

Azidothymidine
Thymidine kinase 1, cytosolic; Regulation; ATP activation; Nucleoside analog (Munch-Petersen, B. (1250) 158)

Azothermal initiator
Thymocyte; Lipid peroxidation; Thiol oxidation (Landi, L. (1239) 207)

Azoxymethane
Colonic mucosal ODC; EGF-receptor; TGF-α (Relan, N.K. (1244) 368)

AZT
Mitochondrial DNA; Mutation; Bioenergy; Coenzyme Q (ubiquinone); DNA (Linnane, A.W. (1271) 191)

Azurin
Disulfide bond; Site-directed mutagenesis; Electron paramagnetic resonance; Fluorescence; Circular dichroism; (*P. aeruginosa*) (Bonander, N. (1251) 48)

B

Bacterial adhesion
Fusion protein; Carbohydrate binding (Hansson, L. (1244) 377)

Bacterial chromatophore
Adsorption isotherm; Probe–membrane interaction; Fluorescent probe; 9-Aminoacridine; Transmembrane pH difference (Casadio, R. (1237) 23)

Bacterial gene
Single-stranded DNA binding protein; Mitochondrial gene (Rikke, B.A. (1261) 143)

Bacterial lipopolysaccharide
Complement activation; Cell-free hemoglobin; Crosslinked hemoglobin (Kaca, W. (1245) 49)

Bacterial photosynthesis
Photosynthesis; Electron transfer; Cytochrome, *c*-type; (*Rf. fermentans*) (Hochkoeppler, A. (1229) 81)

Antenna complex; Light harvesting; LH1; LH2; Circular dichroism; Transmembrane helix; (*Rh. molischianum*); (*Rb. sphaeroides*) (Vischers, R.W. (1230) 147)

Bacterial plasmid
Antibiotic resistance; Streptothricin; *sat*3 gene; Incompatibility group IncQ; Nucleotide sequence (Tietze, E. (1263) 176)

Bacterial proteinase
Serine proteinase; Proteinase; Purification and characterization; (*B. subtilis*) (Yamagata, A. (1253) 224)

Bacterial steroid monooxygenase
Baeyer–Villiger enzyme; Steroid oxidation; Purification; Characterization; Flavoenzyme (Miyamoto, M. (1251) 115)

Bacterial toxin
Leukotoxin; Planar bilayer; Ion channel; Single channel conductance; Multiple conductance state; Membrane pore; RTX toxin; (*A. actinomycetemcomitans*) (Lear, J.D. (1238) 34)

Bactericidal protein
B/PI; Peptide; Antibiotic; Endotoxin neutralization (Gray, B.H. (1244) 185)

Bacteriochlorophyll
Chlorosome; Energy transfer; Hexanol; Ultrastructure; Photosynthesis; Atomic force microscopy (Zhu, Y. (1232) 197)

Bacteriochlorophyll *b*
Photosynthesis; Inhomogeneous broadening; Light harvesting antenna; Quantasome; (*Rps. viridis*) (Monshouwer, R. (1229) 373)

Bacteriophage D3112
A gene; *B* gene; Transposase (Ulycznyj, P.I. (1264) 249)

Bacteriophage lambda lysozyme
NMR; Methionine; Inhibition; DSC; Peptidoglycan (Duewel, H.S. (1247) 149)

Bacteriorhodopsin
Calorimetry; Thermal stability; Cytochrome oxidase; Band 3 protein; Photosystem II (Haltia, T. (1228) 1)

Purple membrane; Lipid–protein interaction; Methyl-substituted alkyl chain; Protein structure (Pomerleau, V. (1234) 221)

Halorhodopsin; Pharaonis halorhodopsin; Halobacterium; Anion pump (Otomo, J. (1240) 248)

Bacterium
ppGpp; rRNA synthesis; Growth rate control; (*E. coli*) (Bremer, H. (1262) 15)

DNA topoisomerase I; Thermotoga; Thermophile; (*T. maritima*) (Bouthier de la Tour, C. (1264) 279)

Baculovirus
Glycosaminoglycan; Extracellular matrix; Fibroblast growth factor (Congote, L.F. (1243) 538)

$cPLA_2$; Phosphorylation; MAP kinase; Overexpression (Abdullah, K. (1244) 157)

Nuclear polyhedrosis virus; Spruce budworm; CfMNPV; Cathepsin (Hill, J.E. (1264) 275)

β_1-Adrenergic receptor; GM1 ganglioside; Modulation of β-adrenergic receptor by GM1; cyclic AMP formation; Sf9 cell (Saito, M. (1267) 1)

Baculovirus vector
Lectin; Von Willebrand factor; cDNA cloning; Gene expression; (Silkworm) (Kotani, E. (1260) 245)

Lysyl hydroxylase; cDNA; Molecular cloning; mRNA distribution; (Rat) (Armstrong, L.C. (1264) 93)

Baeyer–Villiger enzyme
Bacterial steroid monooxygenase; Steroid oxidation; Purification; Characterization; Flavoenzyme (Miyamoto, M. (1251) 115)

Band 3
Glycolipid; Photoaffinity; Globoside (Pacuszka, T. (1257) 265)

Band 3 protein
Calorimetry; Thermal stability; Bacteriorhodopsin; Cytochrome oxidase; Photosystem II (Haltia, T. (1228) 1)

Band shifting, UV-Vis
Polypeptide secondary structure; Interaction with cyanine; Interaction energy; HOMO-LUMO energy; Molecular dynamics (Hermel, H. (1252) 79)

Barley
LOX; Plant lipoxygenase; cDNA cloning; Inverse PCR cloning; (*Hordeum vulgare* L.) (Van Mechelen, J.R. (1254) 221)

Basic fibroblast growth factor
Atherosclerosis; Fibroblast growth factor receptor; Smooth muscle cell (Van Neck, J.W. (1261) 210)

Basic protein
Histone; Amino acid sequence; Embryogenesis; (*Tick*); (*Hyalomma dromedarii*) (Ibrahim, M.A. (1249) 79)

BBMV
Sodium ion–proton exchange; Kinetics (Ferrero, M.I. (1235) 313)

[D-Ala^1] Peptide T amide; Degradation; In situ perfusion; Chronical loop perfusion (Su, S.-F. (1245) 62)

B cell differentiation
Proteoglycan; Glycosaminoglycan; Sulfation; Syndecan (Engelmann, S. (1267) 6)

B-cell tyrosine kinase
$Fc_\epsilon RI$ triggering; Tyrosine phosphorylation; Mast cell (Price, D.J. (1265) 133)

Bcl-2
Oncogene; Cell death; Reactive oxygen species (Korsmeyer, S.J. (1271) 63)

BCMGsNeo
C1s; Serine proteinase; Recombinant; Anti-peptide antibody; (Human); (Hamster) (Toyoguchi, T. (1250) 90)

Benzamil
Sodium ion conductance; Amiloride; Phenamil; EIPA; (*Xenopus* oocyte) (Weber, W.-M. (1239) 201)

Beta cell
Pancreatic β-cell; Islet of Langerhans; ATPase, Ca^{2+}-; Phosphoenzyme; Antibody (Váradi, A. (1236) 119)

Glucose; Sodium ion; Ouabain; Pancreatic β-cell (Saha, S. (1265) 209)

Betaine accumulation
Osmoregulation; Betaine analogue; Osmolyte; ProP; ProU (Randall, K. (1245) 116)

Betaine analogue
Betaine accumulation; Osmoregulation; Osmolyte; ProP; ProU (Randall, K. (1245) 116)

Beta oxidation
Peroxisome; Enzyme induction; Enzyme stabilization; Partially hydrogenated fish oil; Immunoblotting; (Rat liver); (Rat heart) (Kvannes, J. (1255) 39)

Polyunsaturated fatty acid; Rate-limiting step; Growth hormone; 2,4-Dienoyl-CoA reductase (Nada, M.A. (1255) 244)

Peroxisome; L-Carnitine; Acetyl-CoA; Coenzyme A; Hexadecanoate (Sleboda, J. (1258) 309)

p-Aminobenzoic acid; Arachidonic acid; Fatty acid; Lymphoid cell; Jurcat cell (Barbieri, B. (1257) 157)

***B* gene**
Bacteriophage D3112; *A* gene; Transposase (Ulycznyj, P.I. (1264) 249)

Bicarbonate
Anion binding; Brush-border membrane; Formate; Nitrate; NMR (Galanter, W.L. (1237) 16)

Bicarbonate/chloride exchange
Lactate/proton co-transport; Sodium ion/proton exchange (Juel, C. (1265) 127)

Bicarbonate depletion
Electron transport; Photoinhibition; Photosystem II; Thermoluminescence; (Green alga) (Demeter, S. (1229) 166)

Bicarbonate effect
D_1 protein; D_1 mutant; Amino acid interaction; Photosystem II; (*Synechocystis* 6714) (Vernotte, C. (1229) 296)

Bicoid
Morphogen gradient; Dorsal; Embryogenesis; Transcription factor; (*Drosophila*) (Courey, A.J. (1261) 1)

Bifunctional polypeptide
Dihydrofolate reductase; Thymidylate synthase; Nucleotide sequence; Amino acid sequence; Expression (Wang, M. (1261) 325)

Bilayer
Cholesterol; Dipalmitoylphosphatidylcholine; DSC (McMullen, T.P.W. (1234) 90)

Phospholipid; Free fatty acid; Partition (Langner, M. (1236) 73)

Cerebroside; DSC; X-ray diffraction; Membrane (Haas, N.S. (1240) 133)

Malate dehydrogenase; Phospholipid; Phosphatidylethanolamine; Head group specificity; (*Mycobacterium smegmatis*) (Imai, T. (1246) 189)

Bilayer balance model
Lectin; Cell surface curvature; Membrane skeleton; Phospholipid (Lin, S. (1233) 47)

Bilayer lipid membrane
Unstirred layer; pH microelectrode; pH profile; Nigericin; Alcohol dehydrogenase (Antonenko, Y.N. (1235) 57)

Bile
Canaliculus; Membrane; Enzyme; Micelle; Vesicle (Accatino, L. (1243) 33)

NMR, ^{1}H; Bile lipid; Gallstone; Vesicle; Micelle (Sequeira, S.S. (1256) 360)

Esterase; Cholesterol esterase; Pancreatic lipase; Cholesterol oxidase; Phospholipase C; Bile acid; Mixed micelle; EPR (Uematsu, S. (1258) 122)

Bile acid
Dihydrodiol dehydrogenase; Aldo/keto reductase; Reaction mechanism; Indanol (Nanjo, H. (1244) 53)

Cholyl-lysylfluorescein; Glycocholate; Biliary lipid; Liver (Baxter, D.J. (1256) 374)

Cholesterol; Hyodeoxycholic acid; α-Hyocholic acid; Lipoprotein; Sterol metabolism (Cohen-Solal, C. (1257) 189)

Lipoprotein; Binding protein; Immunoprecipitation; Photoaffinity labeling; Serum, human (Kramer, W. (1257) 230)

Fermentable carbohydrate; Cholestyramine; Cholesterol; Triacylglycerol lipoprotein; Short chain fatty acid; (Rat) (Favier, M.-L. (1258) 115)

Esterase; Cholesterol esterase; Pancreatic lipase; Cholesterol oxidase; Phospholipase C; Bile; Mixed micelle; EPR (Uematsu, S. (1258) 122)

Bile acid:CoA ligase; Bile secretion; Conjugation; Cyclosporin A (Vessey, D.A. (1272) 49)

Bile acid-binding protein
Ileum; Chromosome 5; cDNA; (Human) (Oelkers, P. (1257) 199)

Bile acid:CoA ligase
Bile acid; Bile secretion; Conjugation; Cyclosporin A (Vessey, D.A. (1272) 49)

Bile acid-inducible
NADH:flavin oxidoreductase; (*Eubacterium*) (Baron, S.F. (1249) 145)

Bile acid synthesis
Fat-free diet; Cholesterol synthesis; LDL transport; Plasma LDL-cholesterol concentration; Cholesterol homeostasis (Bertolotti, M. (1255) 293)

Bile lipid
NMR, ^{1}H; Bile; Gallstone; Vesicle; Micelle (Sequeira, S.S. (1256) 360)

Bile salt
Albumin; Interaction; Fluorescence; Binding; Amino acid (Farruggia, B. (1252) 59)

Cholesterol; Nucleation; Hydrophobicity; Gallstone (Juste, C. (1254) 89)

Sphingomyelinase; Alkaline; Intestine (Duan, R.-D. (1259) 49)

Bile salt-dependent lipase
cDNA transcript; Fetus; (Human pancreas) (Roudani, S. (1264) 141)

Bile secretion
Bile acid; Bile acid:CoA ligase; Conjugation; Cyclosporin A (Vessey, D.A. (1272) 49)

Biliary cholesterol
Biliary lipid; Diosgenin; Liver; (Rat) (Roman, I.D. (1255) 77)

Biliary lipid
Biliary cholesterol; Diosgenin; Liver; (Rat) (Roman, I.D. (1255) 77)

Cholyl-lysylfluorescein; Glycocholate; Bile acid; Liver (Baxter, D.J. (1256) 374)

Bilirubin
Biliverdin; Human serum albumin; Bovine serum albumin; Circular dichroism; Albumin binding; Voltammetric reduction (Claret, J. (1243) 221)

Reactive-Oxygen Species; Antioxidant; Gunn rat; Lipid-peroxidation (Joshi, M. (1243) 244)

UDP-glucuronosyltransferase; Cholesterol; Intestinal microsome (Sánchez-Pozzi, E.J. (1245) 293)

LDL; Oxidation; Inhibition; Albumin-bound bilirubin; Transition metal (Hulea, S.A. (1259) 29)

Biliverdin
Bilirubin; Human serum albumin; Bovine serum albumin; Circular dichroism; Albumin binding; Voltammetric reduction (Claret, J. (1243) 221)

Bimane
Erythrocyte; Transport; Glutathione S-conjugate (Pułaski, Ł. (1268) 279)

Binding
ADP; Glanzmann's thrombosthenia; Photoaffinity labeling; Receptor (Greco, N.J. (1236) 142)

Albumin; Bile salt; Interaction; Fluorescence; Amino acid (Farruggia, B. (1252) 59)

Carnitine acetyltransferase; Light scattering; Circular dichroism; Fluorescence; Inhibition (Yan, B. (1253) 175)

15-HETE; RBL-1 cell; Subcellular; Lipoxygenase (Kang, L.-T. (1256) 297)

Cholesterol; Fatty acid; LDL receptor; (Hamster) (Sessions, V.A. (1258) 61)

Binding affinity
Calcium ion; Oxygen evolution; Salt wash; Photosystem II membrane; (Spinach) (Han, K.-C. (1232) 230)

Lithocholate; Binding site; Equilibrium dialysis; Serum albumin; (Human) (Takikawa, H. (1244) 277)

Binding constant
Dipalmitoylphosphatidylcholine; Calcium ion; Electrophoresis; Liposome; Shear plane (Satoh, K. (1239) 239)

Binding protein
Diarylsulfonylurea; Sulfonylurea; Antitumor drug; (HeLa cell) (Morré, D.J. (1236) 237)

Diarylsulfonylurea; Sulfonylurea; Antitumor drug; HeLa cell (Morré, D.J. (1244) 133)

Bile acid; Lipoprotein; Immunoprecipitation; Photoaffinity labeling; Serum, human (Kramer, W. (1257) 230)

Binding site
HPLC; ATPase, H^+-; Adenine nucleotide; Kinetics; ATP hydrolysis (Pezennec, S. (1231) 98)

Binding affinity; Lithocholate; Equilibrium dialysis; Serum albumin; (Human) (Takikawa, H. (1244) 277)

Ribonuclease A; Catalysis; Structure; Enzyme kinetics (Nogués, M.V. (1253) 16)

Binding site asymmetry
Ion transport; Active transport; Electrostatics; ATPase, Ca^{2+}- (Hao, M.-H. (1234) 5)

Bioactivation
Mitochondrion; Cysteine *S*-conjugate; 4-Thiaalkanoate; Toxicity (Anders, M.W. (1271) 51)

Bioactive peptide
Casein; NMR, ^{1}H-; Phosphopeptide structure; Anticariogenic peptide (Huq, N.L. (1247) 201)

Biocide
Biofilm; Electrorotation; Conductivity; Dielectric property; Viability (Zhou, X.-F. (1245) 85)

Bioenergetics
ATPase, V-; Gene; Intron; (*C. caldarium*) (Ziegler, K. (1230) 202)

Mitochondrial protein; Nuclear gene; Electron transfer chain; Mitochondrial myopathy (Hegeman, A.D. (1261) 311)

Bioenergy
Mitochondrial DNA; Mutation; Coenzyme Q (ubiquinone); AZT; DNA (Linnane, A.W. (1271) 191)

Biofilm
Electrorotation; Conductivity; Dielectric property; Viability; Biocide (Zhou, X.-F. (1245) 85)

Biogenesis
Microbody; Fatty acid; Peroxisome (Van Roermund, C.W.T. (1245) 348)

Biological recognition
Heterogeneous binding; Histidine; Metal affinity chromatography; Copper iminodiacetic acid (Johnson, R.D. (1247) 293)

Biological transport
Amino acid; Chloride; β-Alanine; (Guinea-pig); (Rat); (Rabbit) (Munck, L.K. (1235) 93)

Swine; Physiology; Amino acid; Glucose; Small intestine; Chloride (Munck, L.K. (1238) 49)

Bioluminescence
Photoprotein; Obelin; Cadmium (Bondar, V.S. (1231) 29)

Luciferase; Coenzyme A; Adenine nucleotide; (Firefly) (Ford, S.R. (1252) 180)

Biomolecular membrane
Lipid membrane; Ion channel reconstitution (Brutyan, R.A. (1236) 339)

Biopolymer–water interaction
NMR, ^{17}O-; Reorientationally hindered water; Water dynamics (Flesche, C.W. (1244) 253)

Biopterin glucoside
Ultraviolet A; Cyanobacterium; (*Oscillatoria* sp.) (Wachi, Y. (1244) 165)

Biosynthesis
Pyridoxine; Glutamine; (*S. cerevisiae*) (Tazuya, K. (1244) 113)

Plasma factor XIII; Hepatocyte; Plasma complex A_2B_2 (Kaczmarek, E. (1247) 127)

Angiotensin; Phosphocholine cytidylyltransferase; Phosphatidylcholine; Cardiac cell (Tran, K. (1259) 283)

Biosynthesis/formation
Acylcarnitines; Carnitine; Pivaloylcarnitine; (Rat) (Diep, Q.N. (1243) 65)

Biotechnology
Protein folding; Thermophile; Protein structure; Protein thermostability; (*S. solfataricus*) (Facchiano, A.M. (1251) 170)

Biotin-binding protein
Streptavidin; Sequence comparison; (*Streptomyces*) (Bayer, E.A. (1263) 60)

Biotin metabolism
Holocarboxylase synthetase deficiency; Molecular analysis; Single base deletion; Missense mutation; (Human) (Aoki, Y. (1272) 168)

Bisindolylmaleimide
Phorbol ester; Ethanol; Phospholipase C; Phosphatidylethanolamine (Kiss, Z. (1265) 93)

Bisoxonol monitoring
A_1 agonist activity; Agonist; Chlorocyclopentyladenosine; Membrane potential; Potassium ion; Cerebrocortical nerve ending (Amoroso, S. (1239) 67)

Bivascular liver perfusion
Signal transmission; Glucagon; Glycogenolysis; Glycolysis; Oxygen uptake; (Rat liver) (Constantin, J. (1244) 169)

Blastic transformation
Phospholipid; Phosphatidylethanolamine; Metabolism; Human T lymphocyte; Cell cycle (Rampini, C. (1257) 75)

Bleaching
Melanin; Opio-melanin; Opioid peptide; Photoirradiation (Rosei, M.A. (1243) 71)

Blepharismin-binding protein
Photomovement; Photoreception; Time-gated fluorescence; Ultraviolet B; (*B. japonicum*) (Angelini, N. (1231) 247)

Blood-brain barrier
Palmitoylation; GLUT1; Brain capillary; Hyperglycemia (Pouliot, J.-F. (1234) 191)

Blood clotting protein
NMR; CD; Factor IX; Propeptide; Hemophilia B; Solution conformation (Cheng, J.-W. (1245) 227)

Blood group
Glycosphingolipid; Intestine; (Rat) (Bouhours, D. (1255) 131)

Blood group B-active glycolipid
Hepatoma; Isogloboside; LEC rat; Neutral glycolipid (Ariga, T. (1254) 257)

Blood platelet
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Blood substitute
Hemoglobin; Polymerization; Oxidation–reduction; Kinetics (Rogers, M.S. (1248) 135)

Blue-green alga
Aminopeptidase; Cyanobacterium; Proteolysis; (*Anabaena*) (Niven, G.W. (1253) 193)

B lymphocyte
Calcium signal; Supported monolayer; Fluidity; Lipid hapten; Confocal fluorescence microscopy; (Mouse) (Katayama, H. (1266) 191)

B16 mouse melanoma melanocyte
Melanin; Melanogenesis extracutaneous; Eye melanocyte; Tyrosinase; Tyrosinase-related protein (Benedito, E. (1252) 217)

Bohr effect
Hemoglobin; Aggregation; Oxygen binding; Chloride effect; Carbon dioxide effect; Cyclostome; (Hagfish); (*M. glutinosa*) (Fago, A. (1249) 109)

Bombesin
Raman spectroscopy; Infrared spectroscopy; Peptide conformation (Carmona, P. (1246) 128)

Bone marrow
Platelet-activating factor; Hematopoiesis; (Human) (Denizot, Y. (1265) 55)

Bone morphogenetic protein 4
Deer antler; mRNA transcript; Noncoding exon (Feng, J.Q. (1263) 163)

Boronic acid
NMR; Serine proteinase; NMR, ^{19}F-; Nuclear Overhauser effect; Protein dynamics (Sylvia, L.A. (1252) 225)

Bovine leukemia virus
Nitrocompound; Cytotoxicity; NADPH:cytochrome *P*-450 reductase; NADH:ubiquinone reductase; DT-diaphorase (Čėnas, N. (1268) 159)

Bovine serum albumin
Bilirubin; Biliverdin; Human serum albumin; Circular dichroism; Albumin binding; Voltammetric reduction (Claret, J. (1243) 221)

Oxidative stress; Hydrogen peroxide; Iron; Nitrilotriacetic acid; Free radical (Ogino, T. (1245) 359)

Bowman–Birk type inhibitor
Proteinase inhibitor; Disulfide linkage; Structure–activity relationship; (*D. biflorus*); (*M. uniflorum*) (Ramasarma, P.R. (1248) 35)

B/PI
Peptide; Antibiotic; Bactericidal protein; Endotoxin neutralization (Gray, B.H. (1244) 185)

BPTI
Tryptase; Serine protease; Mast cell; Localization (Fiorucci, L. (1243) 407)

Bradykinin
Aminopeptidase P; (*L. lactis*) (Mars, I. (1243) 209)

Phospholipase C; Arachidonic acid; Protein kinase; (MDCK-D1 cell) (Kennedy, C.R.J. (1258) 206)

Bradykinin B_1 receptor
Pharmacology; COS cell expression; [des-Arg^{10}]Kallidin (MacNeil, T. (1264) 223)

Brain
ATPase, Na^+/K^+-; Isoenzyme; Streptozotocin-induced diabetes (Vér, Á. (1237) 143)

K *rev*-1/*rap* 1/ *smg* 21 protein; *Ras* protein; Spinal cord; Subcellular distribution; Synaptosome (Urayama, O. (1243) 446)

Fetal alcohol syndrome; Phospholipid; Docosahexaenoic acid; (Guinea-pig) (Burdge, G.C. (1256) 346)

Docosahexaenoic acid; Yolk; Adipose tissue; (Chick embryo) (Maldjian, A. (1258) 81)

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Branched-chain 2-oxo acid dehydrogenase complex
Branched-chain aminotransferase; Methacrylyl-CoA hydratase; 3-Hydroxyisobutyryl-CoA hydrolase; Valine; (Dog) (Ooiwa, T. (1243) 216)

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Sodium ion/phosphate cotransporter; Phosphate transport; pH effect; Substrate effect; Allosteric regulatory site; Divalent phosphate, intervesicular; (Intestine) (Peerce, B.E. (1239) 1)

Sodium ion/phosphate cotransporter; Phosphate transport; Inhibition; Sulfhydryl specific reagent; Molecular mechanism; (Intestine) (Peerce, B.E. (1239) 11)

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C

Caco-2 cell
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Calcium/calmodulin-dependent protein kinase II
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ω-Conotoxin binding; Crosslinker; Labeling; Channel blocker; (Chick brain) (Ichida, S. (1233) 57)

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Calcium ion-dependent phosphoenzyme
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Calcium ion-dependent signalling
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Calcium ion, intracellular concentration
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Calcium ion mobilization
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Calcium ion permeability
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Calcium ion pump
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Calcium ion uptake
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Calcium metabolism
Vitamin D metabolism; Cytochrome *P*-450; Vitamin D hydroxylase; Gene regulation (Chen, K.-S. (1263) 1)

Calcium pump
PMCA3; Trinucleotide repeat (Burk, S.E. (1240) 119)

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Calcium ion; Protein kinase C; Diarrhoea; Enterotoxin; (Rat); (*C. jejuni*) (Kanwar, R.K. (1270) 179)

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Skin; Liposome; Penetration; Confocal laser scanning microscopy (Zellmer, S. (1237) 176)

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Calpain
Autoproteolysis; Cell membrane; Down regulation (Inomata, M. (1235) 107)

cDNA; Calpain large subunit; (Chicken) (Sorimachi, H. (1261) 381)

Protein kinase C; Phorbol ester; Muscle cell (Hong, D.-h. (1267) 45)

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CaM PKIII
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Differentiation; Elongation factor 2; Phosphorylation; Proliferation (Nilsson, A. (1268) 263)

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DNA topoisomerase; Cancer chemotherapy; Recombination (Gupta, M. (1262) 1)

Polyoma large T antigen; DNA relaxation; Scleroderma; Magnesium ion-dependent topoisomerase (Marton, A. (1262) 59)

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Cancer chemotherapy
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Candidate gene
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Cannabinoid
Small angle X-ray diffraction; DSC; Drug–membrane interaction; (−)-*O*-Methyl-Δ^8-tetrahydrocannabinol; 5′-Iodo-*O*-methyl-Δ^8-tetrahydrocannabinol (Mavromoustakos, T. (1237) 183)

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N-Acylethanolamine; Phenylmethylsulfonyl fluoride; Amidohydrolase; (Marijuana) (Hillard, C.J. (1257) 249)

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eIF-4F; mRNA cap structure; Translation initiation; Translational regulation; (*Drosophila*) (Hernández, G. (1261) 427)

Caprine
N-Acetylglucosamine-6-sulfatase; cDNA; Mucopolysaccharidosis IIID; Comparative genomics; Trinucleotide repeat; (Human) (Friderici, K. (1271) 364)

Capsaicin
Model membrane; DSC; NMR, ^{31}P-; Lipid polymorphism (Aranda, F.J. (1234) 225)

Capsid protein p24
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Carbohydrate antigen
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Carbohydrate binding
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Carbohydrate combining site
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Carbohydrate epitope
Okra mucilage; Lectin; Carbohydrate combining site; Carbohydrate binding property (Wu, A.M. (1243) 157)

Carbohydrate structure
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Hemoglobin; Aggregation; Oxygen binding; Chloride effect; Bohr effect; Cyclostome; (Hagfish); (*M. glutinosa*) (Fago, A. (1249) 109)

Carbonic anhydrase II
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Carbon monoxide binding reaction
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Carbon monoxide photodissociation
Time-resolved spectroscopy; Cytochrome oxidase; Electron transfer; Proton translocation (Einarsdóttir, Ó. (1229) 129)

Carboxyfluorescein
Liposome leakage; Channel; Theory; Membrane-active agent; Mastoparan X (Schwarz, G. (1239) 51)

5(6)-Carboxyfluorescein
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Carboxylate
Photosystem II; Oxygen evolution; FTIR; H/D exchange; Hydrogen bond (Noguchi, T. (1232) 59)

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Photosystem II; Oxygen evolution; FTIR; Manganese cluster (Noguchi, T. (1228) 189)

Carboxylesterase
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Carboxypeptidase
Glutathione *S*-transferase P; Carboxyl terminus; (Rat) (Nishihira, J. (1252) 233)

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α-Tubulin; Neural specificity; Transgenic expression; Inter-species conservation; (*C. elegans*) (Fukushige, T. (1261) 401)

Carboxy-terminus
Kinase; Isoform pattern; RNA transcript (Laughner, B. (1263) 67)

Carcinoembryonic antigen
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EGTA; Sodium–calcium ion exchange; Ionophore A23187; Submembrane calcium ion; Temperature; Giant patch (Kabakov, A.Y. (1240) 142)

Cardiac myosin
Motility assay, in vitro; Centrifuge microscope; Force-velocity relation; Myosin (Sugiura, S. (1231) 69)

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Cardiolipin
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Mitochondrial function; Proton leakage; Aging (Ames, B.N. (1271) 165)

Cardiolipin biosynthesis
Heart; Phosphatidylglycerol (Cao, S.G. (1256) 97)

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LDL; Atherosclerosis; LDL subspecies; Cholesterol esterase (Brodt-Eppley, J. (1272) 69)

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L-Carnitine
Beta oxidation; Peroxisome; Acetyl-CoA; Coenzyme A; Hexadecanoate (Sleboda, J. (1258) 309)

Carnitine acetyltransferase
Binding; Light scattering; Circular dichroism; Fluorescence; Inhibition (Yan, B. (1253) 175)

Pivaloylcarnitine; Clofibrate (Diep, Q.N. (1256) 245)

Carnitine octanoyltransferase
cDNA; Promoter; Peroxisome; Peroxisome proliferator activated receptor (Choi, S.J. (1264) 215)

Carnitine palmitoyltransferase
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Carrier-mediated transport
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Type VI collagen; Chondrocyte; RGD; Cell attachment; Integrin (Marcelino, J. (1249) 180)

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Elongation factor 1; cDNA cloning; Protein kinase; Phosphorylation (Chen, C.-J. (1264) 303)

Protein kinase; Mitotic phosphorylation; $p34^{cdc2}$; (Human) (Litchfield, D.W. (1269) 69)

Catalase
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NADPH; Free radical; Peroxide; Electron transfer; (*P. mirabilis*) (Bicout, D.J. (1252) 172)

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Arachidonic acid; 20-Hydroxyarachidonic acid; Retinoic acid; Peroxisome proliferation; Fatty acyl-CoA oxidase; Synergistic effect; Retinoid X receptor; (Morris Hepatoma 7800C1 cell) (Sohlenius, A.-K. (1258) 257)

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Catalytic subunit
Archaeon; ATPase; Amino acid sequence; ATP hydrolysis; Inhibitor; (*H. volcanii*) (Steinert, K. (1249) 137)

Protein kinase, cyclic AMP-dependent; Malaria; Parasitic protozoa; Sequence analysis; (*P. yoelii*) (Saito-Ito, A. (1269) 1)

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Haloperoxidase, non-heme; Esterase; Serine hydrolase; Dehalogenase; Site-directed mutagenesis; (*S. aureofaciens*); (*P. fluorescens*); (*P. pyrrocinia*) (Pelletier, I. (1250) 149)

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α-Crystallin; Chaperone; Protein aggregation; Lens; Thermal denaturation (Rao, P.V. (1245) 439)

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Promoter; Heat shock; Hsp70 gene; (*S. mansoni*) (Levy-Holtzman, R. (1263) 96)

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Baculovirus; Nuclear polyhedrosis virus; Spruce budworm; CfMNPV (Hill, J.E. (1264) 275)

Cathepsin B
Osteoclast; Thiol proteinase (Dong, S.-S. (1251) 69)

Cathepsin D
Plasminogen activator inhibitor-1; Tissue-type plasminogen activator; Monocyte (Simon, D.I. (1268) 143)

Cation
Helix-coil transition; Transition temperature; Poly[d(A-T)]; Pressure dependence (Najaf-Zadeh, R. (1262) 52)

Cation channel
Kidney epithelium; Inner medullary collecting duct; ATP; Gadolinium (Nonaka, T. (1233) 163)

Inner medullary collecting duct; Sodium ion transport; Reverse transcriptase–polymerase chain reaction; PCR; (Mouse kidney) (Karlson, K.H. (1236) 197)

Cationic liposome
Transfection; Liposome; Gene therapy; Endocytosis (Farhood, H. (1235) 289)

Membrane fusion; Endocytosis; Liposome (Wrobel, I. (1235) 296)

Liposome-DNA complex; DNA; Cryo-transmission electron microscopy; Electron microscopy (Gustafsson, J. (1235) 305)

Cationic peptide
Neutrophil; Antibacterial activity; Histamine-releasing activity; Modification; (Guinea-pig) (Yamashita, T. (1243) 295)

Cation permeable channel
Cerebral artery; Smooth muscle; Patch clamp (Mathers, D.A. (1236) 89)

C4b-binding protein
cDNA; Sequence comparison; (Rabbit) (García de Frutos, P. (1261) 285)

Protein S; Protein C; Factor Xa; Factor Va; Prothrombin (Hayashi, T. (1272) 159)

CCAAT element
Histone gene; Promoter activity; recombinant DNA; Transient CAT assay (Takami, Y. (1264) 29)

CCCP
Valinomycin; Liposome; Membrane; Ion transport; Proton transport; Temperature jump (Prabhananda, B.S. (1235) 323)

CD8
Docosahexaenoic acid; (*n* − 3) Fatty acid; Thy-1 (Jenski, L.J. (1236) 39)

CD
NMR; Blood clotting protein; Factor IX; Propeptide; Hemophilia B; Solution conformation (Cheng, J.-W. (1245) 227)

β-Lactoglobulin; Esterification; Pepsin hydrolysis; Microcalorimetry (Chobert, J.-M. (1248) 170)

Alkaline phosphatase; Denaturation; FTIR; Secondary structure; Protein folding (De La Fournière, L. (1248) 186)

CD36
Insulin; Insulin receptor; Adipocyte; Palmitoylation (Jochen, A.L. (1259) 65)

CD4 antibody
Phosphatidylinositol-4-kinase; T cell activation; Cell–cell adhesion (Pertile, P. (1248) 129)

cdc2
Cell cycle; Protein kinase; (*Paramecium*) (Tang, L. (1265) 161)

$CD14^+/CD16^+$ monocyte
Extracellular matrix protein; CD56 surface marker; LAK dependent cytotoxicity; TNFα; Interleukin release; (Human) (López-Moratalla, N. (1265) 181)

CDC48p protein
ATPase activity; Inhibition; Cell cycle protein; *N*-Ethylmaleimide; (*S. cerevisiae*) (Fröhlich, K.-U. (1253) 25)

CD40 ligand
Gene structure; T cell; Ig heavy chain; Chromosome X-linked hyper-IgM syndrome (Shimadzu, M. (1260) 67)

CD4 lymphocyte
LDL; Monocyte; HIV (Juompan, L. (1272) 21)

azidoCDP
Ribonucleotide reductase; EPR; Suicide inhibitor (Behravan, G. (1264) 323)

CDP-choline
Nucleoside diphosphosugar; ADP-ribose; Pyrophosphohydrolase; Nucleotide pyrophosphatase; Phosphodiesterase-I; Manganese(II); Magnesium(II); (Rat liver) (Canales, J. (1246) 167)

CDP-diacylglycerol
Phosphatidylinositol; Phosphatidylinositol-synthase; Selectivity; Solubilization; (Maize) (Justin, A.-M. (1255) 161)

CD56 surface marker
Extracellular matrix protein; $CD14^+/CD16^+$ monocyte; LAK dependent cytotoxicity; TNFα; Interleukin release; (Human) (López-Moratalla, N. (1265) 181)

C/EBP binding site
Elastin; Promoter; Tissue-specific expression (Piccolo, S. (1264) 40)

Ceftibuten
Brush-border membrane; Membrane transport; Oligopeptide; Renal proximal tubule; Small intestine (Naasani, I. (1231) 163)

Cell adhesion
Trophoblast; Cyclohexylamine; Adhesion molecule; Leukocyte; Fucose-1-phosphate (Douglas, G.C. (1266) 229)

Polyprenyl phosphate; Melanoma cell; Sugar chain, N-linked (Shirane, K. (1268) 285)

Cell attachment
Type VI collagen; Chondrocyte; RGD; Cartilage; Integrin (Marcelino, J. (1249) 180)

Cell–cell adhesion
Phosphatidylinositol-4-kinase; CD4 antibody; T cell activation (Pertile, P. (1248) 129)

Cell concentration
Dielectric relaxation; Permittivity; Interfacial polarization; Growth curve; (*S. cerevisiae*) (Asami, K. (1245) 99)

Cell culture
Sodium ion, intracellular; Intracellular sodium ion; NMR; Ion flux; Mitogenic signal; (3T3 fibroplast) (Berman, E. (1239) 177)

c-mos; Proto-oncogene; Spermatogenesis; Translation; Serine phosphorylation (Nagao, Y. (1245) 130)

Cysteine; Cysteinylglycine; Glutathione; Homocysteine (Hultberg, B. (1269) 6)

Cell cycle
Phospholipid; Phosphatidylethanolamine; Metabolism; Human T lymphocyte; Blastic transformation (Rampini, C. (1257) 75)

Icosanoid; Prostaglandin; Leukotriene; Cancer; Proliferating cell nuclear antigen, PCNA; (Colon) (Qiao, L. (1258) 215)

Amidophosphoribosyltransferase; Aminoimidazole ribonucleotide carboxylase; De novo purine synthesis; Divergent promoter; Polymerase chain reaction; (Rat) (Iwahana, H. (1261) 369)

Protein kinase; *cdc2*; (*Paramecium*) (Tang, L. (1265) 161)

Cell cycle protein
CDC48p protein; ATPase activity; Inhibition; *N*-Ethylmaleimide; (*S. cerevisiae*) (Fröhlich, K.-U. (1253) 25)

Cell death
Ion current; Cytomegalovirus; Virus infection; (Human fibroblast) (Bakhramov, A. (1265) 143)

Oncogene; Bcl-2; Reactive oxygen species (Korsmeyer, S.J. (1271) 63)

Cell differentiation
Polyunsaturated fatty acid; Desaturation; Elongation; Leukemia; Lymphoma; (Human) (Marzo, I. (1257) 140)

Transmembrane protein; Protein polymorphism; EGF-like superfamily; Neuroendocrine cell (Lee, Y.L. (1261) 223)

HL-60 cell; Retinoic acid; Thymus extract (Schulze-Forster, K. (1265) 110)

Okadaic acid; Macrophage; Annexin (Sato, E.F. (1266) 23)

Adenovirus E1A; F9 cell; CR domain; c-jun (Li, H.-O. (1266) 148)

Polyunsaturated fatty acid; Cell growth; Premanocytic cell (U937) (Obermeier, H. (1266) 179)

Monocyte; Retinoic acid; 1,25-Dihydroxyvitamin D_3; Superoxide anion (Obermeier, H. (1269) 25)

Cell division
Atherosclerosis; Growth; Platelet-derived growth factor; Lipoprotein; Arterial smooth muscle cell; Fibroblast (Björkerud, S. (1268) 237)

Cell-free hemoglobin
Complement activation; Crosslinked hemoglobin; Bacterial lipopolysaccharide (Kaca, W. (1245) 49)

Cell growth
Creatine depletion; Ehrlich ascites tumor (Ohira, Y. (1243) 367)

Polyunsaturated fatty acid; Cell differentiation; Premanocytic cell (U937) (Obermeier, H. (1266) 179)

Cell injury
Anoxia; Reoxygenation; Lactic dehydrogenase; Oxygen free radical; Superoxide; Allopurinol; Antimycin; Diphenyleniodonium; Superoxide dismutase; Tetramethylpiperidine-1-oxyl (Caraceni, P. (1268) 249)

Mitochondrial dysfunction; Anoxia; Di-calciphor (Jones, D.P. (1271) 29)

Cell membrane
Calpain; Autoproteolysis; Down regulation (Inomata, M. (1235) 107)

Red blood cell; Calcium; Cobalt; Hydrogen peroxide; Senescence; NMR (Aiken, N.R. (1270) 52)

Cell membrane potential
Hepatocyte; Progesterone; K^+-Conductance (Waldegger, S. (1266) 186)

Cell metabolism
Nitric oxide; Fusinite; Kinetics; EPR; In vivo measurement; CHO cell; Mitochondrion (Clarkson, R.B. (1243) 496)

Cell morphology
Endothelial cell; Ancrod-generated fibrin; G-protein-coupled phospholipase C; $\alpha_v \beta_3$ Integrin (Chang, M.-C. (1269) 115)

Cell motility
Fibroblast; Impedance; Silicon membrane; Pore (Hagedorn, R. (1269) 221)

Cell passage
Elastin; Smooth muscle cell; Tropoelastin-degrading activity (Wachi, H. (1243) 393)

Cell polarization
Leukocyte; Chemotaxis; Metal ion; FMLP (Hujanen, E.S. (1245) 145)

Cell signaling
14-3-3 protein; *Arabidopsis*; Protein kinase C inhibitor (Zhang, H. (1266) 113)

Cell stimulation
Neutrophil; Glycosyl-phosphatidyl-anchored protein; Exocytosis; Detergent (Cain, T.J. (1235) 69)

Cell surface curvature
Lectin; Membrane skeleton; Bilayer balance model; Phospholipid (Lin, S. (1233) 47)

Cell surface protein
Liposome; Surface layer, crystalline; S layer; Immobilization; (*B. coagulans*) (Küpcü, S. (1235) 263)

Cell survival
Electropermeabilization; Short-term cell death; Long-term cell death; Chinese hamster ovary cell (Gabriel, B. (1266) 171)

Cell suspension culture
Furan fatty acid; F-acid; Furan ring methylation; (*Saccharum* spec.) (Scheinkönig, J. (1254) 73)

Cell toxicity correlation
Antibiotic; Polyene macrolide antibiotic; Sterol; Membrane modeled medium; Amphotericin B–sterol interaction (Mazerski, J. (1236) 170)

Cell trafficking
Positron emission tomography (PET); Tumor metastasis; Protein kinase C; RAW117 large cell lymphoma; Lymphoma cell (Koike, C. (1238) 99)

Cellular model system
Mitochondrion; mtDNA mutation (Attardi, G. (1271) 241)

Cellular proliferation
Calcium influx; Ganglioside GM1 (Buckley, N.E. (1256) 275)

Cellular redox state
Lymphocyte activation; Gene expression; Transcription factor; Interleukin 2; Reactive oxygen species (Goldstone, S.D. (1263) 114)

Cellular respiration
Hepatocyte; Volume; Osmolarity; Energetics (Espie, P. (1230) 139)

Cellulase
Endoglucanase III; Chemical modification; (Trichoderma reesei) (Macarrón, R. (1245) 187)

Cell viability
Temperature; (Yeast) (Gervais, P. (1235) 52)

Cell volume
Glutamine; Glucose; Lymphocyte; Macrophage (Wu, G. (1243) 343)

Cell wall
Macromolecule transfer; Electric field mediation; Electroloading; (Yeast) (Ganeva, V. (1240) 229)

Mannoproteins; Calcofluor white hypersensitive; GPI (Vossen, J.H. (1243) 549)

CEM cell
Influenza virus; Sialic acid; Membrane fusion; Membrane binding; Neuraminidase; Fluorescence (Pedroso de Lima, M.C. (1236) 323)

Central nervous system
Vitamin E; Tocopherol; Uptake; Peripheral nervous system; Liver (Clément, M. (1256) 175)

Centrifugal field
VLDL; LDL; HDL; Albumin; Table-top ultracentrifuge (Pietzsch, J. (1254) 77)

Centrifugation
Erythrocyte; Size distribution; Electric conductance (Pribush, A. (1256) 187)

Erythrocyte; Deformability; Electric conductance; Pellet (Pribush, A. (1256) 194)

Centrifuge microscope
Cardiac myosin; Motility assay, in vitro; Force-velocity relation; Myosin (Sugiura, S. (1231) 69)

Ceramide
Cestode; Free ceramide; Glycosphingolipid; (*E. multilocularis*) (Persat, F. (1255) 280)

Acyl-CoA:cholesterol acyltransferase; Dihydroceramide; CHO cell (Ridgway, N.D. (1256) 39)

Sphingomyelin; Mass spectrometry; Sphingoid base; Fatty acid (Katsikas, H. (1258) 95)

Cerebral artery
Smooth muscle; Cation permeable channel; Patch clamp (Mathers, D.A. (1236) 89)

Cerebral blood flow
Arachidonic acid; Cytochrome *P*-450; Epoxyicosatrienoic acid; Atherosclerosis; Hypertension (VanRollins, M. (1256) 263)

Cerebral lipid
Anandamide; Cannabinoid; Icosanoid; Lipoxygenase; Fatty acid-amide; (Brain) (Hampson, A.J. (1259) 173)

Cerebrocortical nerve ending
A_1 agonist activity; Agonist; Chlorocyclopentyladenosine; Membrane potential; Bisoxonol monitoring; Potassium ion (Amoroso, S. (1239) 67)

Cerebroside
DSC; X-ray diffraction; Bilayer; Membrane (Haas, N.S. (1240) 133)

Glycolipid; LIPIDAT; Lyotropic; Sphingomyelin; Thermotropic (Koynova, R. (1255) 213)

Cerebrospinal fluid
Apolipoprotein; Lipoprotein particle; Lipid transport (Borghini, I. (1255) 192)

Ceruloplasmin
Uterus; Plasma protein; Gene expression (Thomas, T. (1261) 77)

Ceruloplasmin
Copper; Golgi apparatus; (LEC rat) (Terada, K. (1270) 58)

Ceruloplasmin receptor
Copper transport; Copper uptake; Placental transport (Hilton, M. (1245) 153)

Cestode
Ceramide; Free ceramide; Glycosphingolipid; (*E. multilocularis*) (Persat, F. (1255) 280)

CETP
HDL conversion; LCAT; PLTP (Pulcini, T. (1254) 13)

Human CETP; Transgenic mice; Lipoprotein; HDL cholesterol; HDL particle size; HDL_1 (Dinchuk, J. (1255) 301)

CF_0CF_1
Photophosphorylation; Chloroplast; ΔpH clamp; Enzyme kinetics (Kothen, G. (1229) 208)

CfMNPV
Baculovirus; Nuclear polyhedrosis virus; Spruce budworm; Cathepsin (Hill, J.E. (1264) 275)

c-*fos*
Transforming growth factor-β; Receptor; Transfection; Rat liver epithelial cell (Mercier, T. (1266) 64)

CFTR, cystic fibrosis transmembrane regulator
cyclic AMP activation; Chloride channel; Adenocarcinoma, pancreatic (Smith, A.N. (1271) 315)

CFTR expression
Cystic fibrosis; antisense mRNA; Down-regulation; (HT29-derived cell line) (Wardle, C.J.C. (1261) 417)

C-6 glia
Thioridazine; 2',3'-Cyclic-nucleotide 3'-phosphohydrolase; Lipid composition; Membrane fluidity (Saito, M. (1235) 178)

Chagas' disease
Acidic ribosomal protein; Multigene family; Phosphorylation site (Schijman, A.G. (1264) 15)

Chain cap
Keratan sulfate oligosaccharide; NMR, ^{1}H-; Repeat sequence; Structural assignment; Keratanase digestion (Huckerby, T.N. (1244) 17)

Channel
Uncoupled transport; Mutagenesis; Protein modification; Antiport model; Vectorial coupling (Krupka, R.M. (1236) 1)

Liposome leakage; Carboxyfluorescein; Theory; Membrane-active agent; Mastoparan X (Schwarz, G. (1239) 51)

Permeability transition; Mitochondrion; Swelling; Calcium; Electrophysiology (Zoratti, M. (1241) 439)

Channel blocker
ω-Conotoxin binding; Crosslinker; Labeling; Calcium ion channel blocker, N-type; (Chick brain) (Ichida, S. (1233) 57)

Channel formation
Peptaibol; Chrysospermin; Lipid bilayer; Voltage-dependent conductance (Grigoriev, P. (1237) 1)

Channel-forming peptide
δ-Toxin; Ion channel; Amphipathic helix; Hemolysis (Kerr, I.D. (1236) 219)

Channeling
Metabolic control theory; Control theory; Relay pathway; Enzyme–enzyme interaction (Kholodenko, B.N. (1229) 256)

Chaotropic agent
Stabilization; Polyhydric compound; Protein unfolding; Water structure; Fourier transform Raman spectroscopy (Taylor, L.S. (1253) 39)

Chaperone
α-Crystallin; Protein aggregation; Cataract; Lens; Thermal denaturation (Rao, P.V. (1245) 439)

Protein sequencing (Naylor, D.J. (1248) 75)

α-Crystallin; Unfolded protein; Fluorescence spectroscopy; NMR (Carver, J.A. (1252) 251)

Chaperone Cpn60
Affinity chromatography; GroEL; Urea-induced monomerization; (*E. coli*) (Blennow, A. (1252) 69)

Chaperone protein
GroEL; GroES; Carbonic anhydrase II; Amino-terminal truncation; Protein engineering; (Human) (Persson, M. (1247) 195)

Chaperonin
GroEL; GroES; Chaperonin assembly; Protein folding; Chaperonin monomer (Mendoza, J.A. (1247) 209)

t-complex protein 1 (TCP-1); Axolotl; Embryonic expression; Embryogenesis (Sun, H.B. (1260) 157)

Chaperonin assembly
Chaperonin; GroEL; GroES; Protein folding; Chaperonin monomer (Mendoza, J.A. (1247) 209)

Chaperonin monomer
Chaperonin; GroEL; GroES; Chaperonin assembly; Protein folding (Mendoza, J.A. (1247) 209)

Characterization
Bacterial steroid monooxygenase; Baeyer–Villiger enzyme; Steroid oxidation; Purification; Flavoenzyme (Miyamoto, M. (1251) 115)

β-Glucosidase; Purification; Glucose-enhanced glucosidase; (Streptomycete) (Pérez-Pons, J.A. (1251) 145)

Novel valine dehydrogenase; Purification; Valine dehydrogenase; (*S. aureofaciens*) (Nguyen, L.T. (1251) 186)

Phospholipase D; Purification; Signal transduction; (Human placenta) (Vinggaard, A.M. (1258) 169)

Nuclease; Purification; DNA; RNA; (*E. chrysanthemi*) (Moulard, M. (1262) 133)

Charge
LDL; Oxidized LDL; Fast protein-liquid chromatography; Immunoaffinity chromatography (Chappey, B. (1259) 261)

Charge reversal effect
Thiopropionyl cytochrome *c*; Chemically modified cytochrome *c*; Chromatographic separation; Cytochrome-*c* oxidase; Oxidase activity (Theodorakis, J.L. (1252) 114)

Charge separation
Photosynthesis; Electron transfer; Dielectric relaxation; Protein relaxation; Protein as a dielectric (Krishtalik, L.I. (1228) 58)

Thylakoid; Patch clamp; Photocurrent (Vredenberg, W. (1230) 77)

Charge shuttle
E211Q enolase; Enolase mechanism; Site-directed mutagenesis; Yeast (Sangadala, V.S. (1251) 23)

Charybdotoxin
Potassium ion channel, calcium-activated; Calcium ion channel, T-type; Src oncogene; $pp60^{v\text{-}src}$; NIH3T3 cell (Draheim, H.J. (1269) 57)

Chemical and physical stability
Liposome; Lysophospholipid; Fatty acid; Micelle; Chemical hydrolysis (Zuidam, N.J. (1240) 101)

Chemical hydrolysis
Liposome; Chemical and physical stability; Lysophospholipid; Fatty acid; Micelle (Zuidam, N.J. (1240) 101)

Chemically modified cytochrome *c*
Thiopropionyl cytochrome *c*; Chromatographic separation; Cytochrome-*c* oxidase; Charge reversal effect; Oxidase activity (Theodorakis, J.L. (1252) 114)

Chemical modification
Flavoenzyme; Oxidoreductase; Substrate-binding peptide (Huang, D.-Y. (1243) 431)

Cellulase; Endoglucanase III; (Trichoderma reesei) (Macarrón, R. (1245) 187)

Lipase; Active site; Mass spectrometry; (*S. hyicus*) (Boots, J.-W.P. (1248) 27)

Pyruvate dehydrogenase complex; α-Keto acid dehydrogenase complex; Active site; Arginine (Eswaran, D. (1252) 203)

Chemiluminescence
Enolization; Glycation; Hydrogen peroxide; Maillard reaction; Pyrone hydroperoxide (Lertsiri, S. (1245) 278)

Lipid hydroperoxide; Lipoprotein; Antioxidant; Luminol (Zamburlini, A. (1256) 233)

Chemoresistance
Oncogene; Apoptosis; Prostate tumor (Sinha, B.K. (1270) 12)

Chemosensitizer
Sphingomyelinase; Multidrug resistance (Jaffrézou, J.-P. (1266) 1)

Chemotaxis
Leukocyte; Cell polarization; Metal ion; FMLP (Hujanen, E.S. (1245) 145)

Neutrophil; fMet-Leu-Phe; Morphological response; Time window; (Human) (Raif-Preminger, M. (1265) 49)

Motility; De-energization; Proton motive force; Flagellar motor; Arsenate (Welch, M. (1268) 81)

Chemotherapy
DNA topoisomerase; Non-small cell lung cancer; Gene expression; Proliferation (Giaccone, G. (1264) 337)

Chimeric mutation
α-Galactosidase; Amino acid substitution; Thermostability (Ishii, S. (1270) 163)

Chinese hamster ovary cell
Electropermeabilization; Cell survival; Short-term cell death; Long-term cell death (Gabriel, B. (1266) 171)

Chitinase
Transcript regulation; Vacuolar protein; Wound-induced; genomic DNA (Hamel, F. (1263) 212)

Chitosan-entrapped UDP-glucuronyl transferase
Diffusion; Immobilization (Zihnioğlu, F. (1244) 291)

Chloramphenicol acetyltransferase
Angiotensin II; Type 2 receptor (Kobayashi, S.-i. (1262) 155)

Chloride
Biological transport; Amino acid; β-Alanine; (Guinea-pig); (Rat); (Rabbit) (Munck, L.K. (1235) 93)

Swine; Biological transport; Physiology; Amino acid; Glucose; Small intestine (Munck, L.K. (1238) 49)

Chloride channel
Conductance; Melanoma cell; Patch-clamp (Kauranen, M. (1269) 281)

CFTR, cystic fibrosis transmembrane regulator; cyclic AMP activation; Adenocarcinoma, pancreatic (Smith, A.N. (1271) 315)

Chloride conductance
Inner medullary collecting duct; Volume regulation; Potassium ion conductance; Dideoxyforskolin; Hypotonic stress; (Rat) (Sauer, H. (1239) 99)

Mesangial cell; Whole-cell recording; Ochratoxin A; Niflumic acid; Insulin; (*H-2K*^{b}-tsA58 transgenic mouse) (Barber, R.D. (1269) 267)

Chloride current
cDNA cloning; Swelling-induced chloride current; (Rabbit heart) (Okada, H. (1234) 145)

Chloride effect
Hemoglobin; Aggregation; Oxygen binding; Carbon dioxide effect; Bohr effect; Cyclostome; (Hagfish); (*M. glutinosa*) (Fago, A. (1249) 109)

Chloride electrode
Captured volume; Lipid vesicle; Vesicle morphology (Gruber, H.J. (1240) 266)

Chloride permeability
A6 cell; Aldosterone; Sodium ion transport (Devuyst, O. (1235) 443)

Chlorocruorin
Hemoglobin; cDNA sequence; Primary structure; (*Sabellastarte indica*) (Suzuki, T. (1252) 189)

Chlorocyclopentyladenosine
A_1 agonist activity; Agonist; Membrane potential; Bisoxonol monitoring; Potassium ion; Cerebrocortical nerve ending (Amoroso, S. (1239) 67)

(*S*)-3-Chlorolactaldehyde
1,6-Dichloro-1,6-dideoxy-D-fructose; Aldolase; Glyceraldehyde-3-phosphate dehydrogenase; Glycolytic inhibition; (Boar spermatozoa) (Jones, A.R. (1244) 141)

***p*-Chloromercuribenzoate**
Cysteine protease; Ginger protease; Isoelectric focusing; SDS electrophoresis; TSK G2000 gel chromatography (Ohtsuki, K. (1243) 181)

Chlorophyll
Photosystem II; Reaction center; Pheophytin; HPLC (Eijckelhoff, C. (1231) 21)

Chlorophyll biosynthesis
tRNA identity; Aminolevulinic acid; Glutamate; Glutamyl tRNA synthetase; Glutamyl tRNA reductase; (Barley) (Willows, R.D. (1263) 228)

Chlorophyll bleaching
Hydrogen peroxide; Nitrite; Nitrogen dioxide; Peroxidase (Shibata, H. (1230) 45)

Chlorophyll fluorescence
Nonphotochemical quenching; Light harvesting complex II; Xanthophyll cycle; Minor LHC II complex (Härtel, H. (1228) 91)

Photosystem II; Water oxidation; Photoactivation; Electrochromism; Proton (Delrieu, M.J. (1231) 47)

Chloroplast
Photoinhibition; CP43; D1 protein; Reaction center; Photosystem II (Mori, H. (1228) 37)

Photophosphorylation; CF_0CF_1; ΔpH clamp; Enzyme kinetics (Kothen, G. (1229) 208)

Grana margin; Light harvesting complex II; Photosystem; Partitioning; Aqueous polymer; Ferredoxin:NADP oxidoreductase; (Spinach thylakoid) (Wollenberger, L. (1230) 10)

Thylakoid; Lipid synthesis; Mono(di)galactosyldiacylglycerol; Lipid asymmetry (Rawyler, A. (1233) 123)

Chloroplast enzyme
Light/dark modulation; NADP-malate dehydrogenase; Fructose-bisphosphatase; Phosphoribulokinase; Redox equilibrium; Metabolite effect (Faske, M. (1247) 135)

Chloroplast membrane
Photosystem II; Thermal stability; (*Arabidopsis*) (Tsvetkova, N.M. (1228) 201)

Chloroquine diphosphate
Cholesteryl ester hydrolytic activity; cyclic AMP-dependent protein kinase; H-89 (cyclic AMP-dependent protein kinase inhibitor); Iloprost; Phospholipid; 2′,5′ Dideoxyadenosine; Platelet (Barre, D.E. (1254) 180)

Chlorosome
Antenna; Morphology; Hydrodynamic diameter; Alcohol treatment; (Green bacterium) (Wang, Z.-Y. (1232) 187)

Energy transfer; Hexanol; Ultrastructure; Photosynthesis; Atomic force microscopy; Bacteriochlorophyll (Zhu, Y. (1232) 197)

Chlorsulfuron
Herbicide; Auxin; NADH oxidase; Plasma membrane; Plant growth; (Soybean) (Morré, D.J. (1240) 5)

CHO cell
Nitric oxide; Fusinite; Kinetics; EPR; In vivo measurement; Cell metabolism; Mitochondrion (Clarkson, R.B. (1243) 496)

Acyl-CoA:cholesterol acyltransferase; Ceramide; Dihydroceramide (Ridgway, N.D. (1256) 39)

Short-chain ceramide; Short-chain dihydroceramide; Sphingomyelin synthesis (Ridgway, N.D. (1256) 57)

CHO cell line
Multidrug resistance; Analgesic; Plasma membrane; MCF7 cell line (Callaghan, R. (1236) 155)

Cholecystokinin
Diacylglycerol; Translocation PKC; Protein kinase C; Tetradecanoyl phorbol acetate; L-364,718 (Bastani, B. (1269) 307)

Cholera toxin
Protein-lipid binding; Polyacrylamide gel electrophoresis; Lipid vesicle; Micelle; Ganglioside; Streptavidin; Annexin (Arnold, M. (1233) 198)

Fluorescence; Phospholipid; Membrane packing (Picking, W.L. (1247) 65)

Cholest-3,5-dien-7-one
Cholesterol peroxidation; Lipoprotein; Digitonin precipitation (Hahn, M. (1255) 341)

Cholesterogenesis
HMG-CoA synthase; Site-directed mutagenesis; Protein chemistry; Ketogenesis (Misra, I. (1247) 253)

Cholesterol
Phospholipase D; Calcium ion; 1,2-Diacylglycerol; α-Tocopherol; FTIR (Yamamoto, I. (1233) 21)

Dipalmitoylphosphatidylcholine; DSC; Bilayer (McMullen, T.P.W. (1234) 90)

ATPase, Na^+/K^+-; Phosphorylation; Dephosphorylation; Reconstitution (Cornelius, F. (1235) 205)

Time-resolved fluorescence; Fluorescence; Platelet lipid; Diphenylhexatriene; *trans*-Parinaric acid (Vélez, M. (1235) 343)

Lateral domain; Phase separation; Phosphatidylcholine; Sphingomyelin; Epifluorescence microscopy; Monolayer membrane (Slotte, J.P. (1235) 419)

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Phosphatidylcholine; Lateral domain heterogeneity; Monolayer; Epifluorescence microscopy; Lipid interaction (Slotte, J.P. (1238) 118)

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Cholesterol oxidase
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Chylomicron remnant
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Conformation
Acetylcholine receptor; α-Bungarotoxin; Toxin; Photolabeling; Antagonist (Moore, M.A. (1235) 336)

Aminoacylase; Denaturation; Inactivation; Kinetic analysis (Wang, H.-R. (1248) 97)

Nuclease; N-terminal fragment; Peptide folding; (*Staphylococcus*) (Jing, G.-z. (1250) 189)

Creatine kinase; Sodium dodecyl sulfate; Inactivation (Wang, Z.-F. (1251) 109)

Glycation; Glycosylation; Glyceraldehyde-3-phosphate dehydrogenase; Denaturation (He, R.-Q. (1253) 47)

Conformational change
Phase partition; LLPC; Ligand binding; Antibody; Enzyme (Wingren, C. (1244) 209)

Active site; Creatine kinase; Denaturation; Guanidine hydrochloride; Spin labeling (Liu, Z.-J. (1253) 63)

Enzyme; Denaturation; Inactivation (Tsou, C.-L. (1253) 151)

Conformational stability
ATPase; Acid secretion; Disulfide bond; Tryptic sensitivity (Tyagarajan, K. (1236) 105)

Conjugation
Bile acid; Bile acid:CoA ligase; Bile secretion; Cyclosporin A (Vessey, D.A. (1272) 49)

Connectin
Nebulin; Muscle development; Protein isoform; Skeletal muscle; (Chicken) (Hattori, A. (1244) 179)

Connective tissue
FTIR; Collagen; Cancer; (Human tissue) (Jackson, M. (1270) 1)

Connective tissue degradation
Oxygen derived free radical; Glycosaminoglycan (Moseley, R. (1244) 245)

ω-Conotoxin binding
Crosslinker; Labeling; Calcium ion channel blocker, N-type; Channel blocker; (Chick brain) (Ichida, S. (1233) 57)

Consensus sequence
Seminalplasmin gene; Transcriptional initiation site; Primer extension analysis; Promoter activity; (Bovine) (Herbers, J. (1263) 271)

Contact point
Porin; VDAC; Hexokinase; Triton; Polyanion (Báthori, G. (1234) 249)

Contact site
Monoamine oxidase; Aldehyde reductase; Radiochemical assay; Outer membrane; Mitochondrion (Wojtczak, A.B. (1229) 249)

Contractile activity
Actin; Enzyme binding; Glycolysis; Hexokinase; Low-frequency stimulation; Mitochondrion; Phosphofructokinase; Skeletal muscle (Parra, J. (1251) 154)

Control coefficient
Group-transfer pathway; Inhibitor analysis; Metabolic control analysis (Kholodenko, B.N. (1229) 275)

Mitochondrion; Ischemia; Heart (Borutaite, V. (1272) 154)

Control theory
Metabolic control theory; Channeling; Relay pathway; Enzyme–enzyme interaction (Kholodenko, B.N. (1229) 256)

Friction analysis; Friction coefficient; Enzyme kinetics (Lolkema, J.S. (1252) 284)

Cooperative inhibition
Leaf proteinase; L-Lysine homopolymer (Amato, C. (1249) 86)

Cooperative lipid motion
Sterol function; NMR order parameter; Transverse deuteron relaxation; Cross polarization spin dynamics; Relaxation process, ^{13}C (Urbina, J.A. (1238) 163)

Cooperativity
F_1; ATPase; Photoaffinity labeling; NAP_3-2-azido-ADP; Tight binding; Non-catalytic site; Hysteretic inhibition (Edel, C.M. (1229) 103)

Kinetics; ATPase, F_1- (Kato, Y. (1231) 275)

Papain; Specificity; Substrate binding; Inhibitor binding (Liu, S. (1250) 43)

Co-oxidation
Antioxidant; Hydroperoxide; Radical; Lipoprotein; (Mammalian) (Schnurr, K. (1254) 66)

Copper
Oxidized LDL; Ascorbate; Dehydroascorbate; Iron; Lipid peroxidation (Retsky, K.L. (1257) 279)

Ceruloplasmin; Golgi apparatus; (LEC rat) (Terada, K. (1270) 58)

Copper-containing
Amine oxidase; Filamentous fungus; Flavin-containing; Monoamine oxidase (Schilling, B. (1243) 529)

Copper-containing amine oxidase
Porcine kidney diamine oxidase; Dehydroputrescine; Mechanism-based inactivation; Diaminobutene (He, Z. (1253) 117)

Copper iminodiacetic acid
Biological recognition; Heterogeneous binding; Histidine; Metal affinity chromatography (Johnson, R.D. (1247) 293)

Copper-induced oxidation
Lipid peroxidation; Photosensitive oxidation; LDL; Serum; Cholesterol; (Human); (Rat); (Guinea-pig) (Mosinger, B.J. (1270) 73)

Copper-mediated oxidation
LDL; HDL; Lp A-I; Lp A-I:AII; Albumin (Decossin, C. (1255) 31)

Copper protein
Promoter; Nitrous oxide reductase; NosZ; Regulation; FNR-binding site; Denitrification (Cuypers, H. (1264) 183)

Copper transfer
Copper transport; Cytotrophoblast; Trace element; Placental transport (Tong, K.K. (1269) 233)

Copper transport
Ceruloplasmin receptor; Copper uptake; Placental transport (Hilton, M. (1245) 153)

Copper transfer; Cytotrophoblast; Trace element; Placental transport (Tong, K.K. (1269) 233)

Copper uptake
Ceruloplasmin receptor; Copper transport; Placental transport (Hilton, M. (1245) 153)

Copper-zinc superoxide dismutase
Superoxide dismutase; Redox potential; EPR; Iron superoxide dismutase; (Bovine); (*E. coli*) (Verhagen, M.F.J.M. (1244) 99)

Core complex
Picosecond transient absorption; Energy transfer; Trapping; Photosystem II; Long-wavelength pigment (Schelvis, J.P.M. (1230) 165)

Core particle
Photosynthesis; Photosystem II; Water oxidation; Oxygen evolution; Electron transfer; Proton transfer; Dark adaptation, repetitive (Bögershausen, O. (1230) 177)

Cortical neuron
N-Acylphosphatidylethanolamine; *N*-Acylethanolamine; Anandamide; Glutamate; Neurotoxicity (Hansen, H.S. (1258) 303)

Corticosteroid-binding globulin
Transcortin; Placenta; Membrane receptor (Krupenko, S.A. (1235) 387)

Corticotropin
Adenylate cyclase; Forskolin; Fluoride; Mathematical model (Juška, A. (1236) 289)

COS-7
Transfection; DOTMA; Carrier; Synthetic amphiphile (Van der Woude, I. (1240) 34)

COS cell
Polyamine; *S*-Adenosylmethionine decarboxylase; Protein turnover; Translational regulation (Svensson, F. (1260) 21)

COS cell expression
Bradykinin B_1 receptor; Pharmacology; [des-Arg^{10}]Kallidin (MacNeil, T. (1264) 223)

Cotton effect
Secondary structure; Circular dichroism; Flavin microenvironment; Deletion mutant (Visser, A.J.W.G. (1229) 381)

***p*-Coumaric acid**
Lignin biodegradation; *trans*-Ferulic acid; Dioxygenase; (*Acinetobacter calcoaceticus*) (Delneri, D. (1244) 363)

Coupling
ATP synthase; ϵ subunit; Topology; Cross-linking (Aggeler, R. (1230) 62)

ATPase, H^+-; Suppressor mutation; Site-directed mutagenesis; Yeast; (*S. cerevisiae*) (Anand, S. (1234) 127)

COUP-TFI
PCR; DNA binding domain; Ti domain; (Rat brain) (Yoshikawa, T. (1264) 63)

COX1
Pet mutation; Cytochrome-*c* oxidase; COX2; *MSS2*; (*S. cerevisiae*) (Simon, M. (1228) 95)

COX2
Pet mutation; Cytochrome-*c* oxidase; COX1; *MSS2*; (*S. cerevisiae*) (Simon, M. (1228) 95)

CP43
Photoinhibition; D1 protein; Reaction center; Photosystem II; Chloroplast (Mori, H. (1228) 37)

CP47; D2; Diuron; Fluorescence induction; Precursor of D1 protein; (*S. obliquus*) (Gong, H. (1228) 181)

CP47
CP43; D2; Diuron; Fluorescence induction; Precursor of D1 protein; (*S. obliquus*) (Gong, H. (1228) 181)

CR1
Argininosuccinate lyase; δ-Crystallin; Gene expression; Lens; Enhancer; (Duck) (Li, X. (1261) 25)

Crabtree effect
Calcium; ATPase, F_1F_o-; Inhibitory protein; Adenine nucleotide translocase; (Ehrlich ascites tumor) (Bogucka, K. (1228) 261)

CR domain
Adenovirus E1A; F9 cell; Cell differentiation; c-jun (Li, H.-O. (1266) 148)

Creatine biosynthesis
Guanidinoacetate methyltransferase; cDNA; Deficiency; (Human) (Isbrandt, D. (1264) 265)

Creatine depletion
Brown adipose tissue; β-Guanidinopropionic acid; Hyperplasia; Nonshivering thermogenesis; Uncoupling protein (Yamashita, H. (1230) 69)

Ehrlich ascites tumor; Cell growth (Ohira, Y. (1243) 367)

Creatine kinase
Mitochondrion; Gene targeting; Embryonic stem cell; Energy metabolism; Fertility (Steeghs, K. (1230) 130)

Saturation transfer; Relaxation time; Dilution; Rate constant; NMR, ^{31}P- (Conrad, A. (1243) 117)

Arginine kinase; Phosphagen kinase; Active site residue (Strong, S.J. (1246) 197)

ATP-binding site; Peptide analysis; Glycine-rich loop; Recombinant expression; Autophosphorylation (Hemmer, W. (1251) 81)

Sodium dodecyl sulfate; Inactivation; Conformation (Wang, Z.-F. (1251) 109)

Active site; Conformational change; Denaturation; Guanidine hydrochloride; Spin labeling (Liu, Z.-J. (1253) 63)

Alzheimer's disease; A4-amyloid; Cross-reactive epitope; Monoclonal antibody (Cazorla, P. (1270) 149)

Crenarchaeota
secY gene; Protein translocation; Transcription unit; (*S. acidocaldarius*) (Kath, T. (1264) 155)

Cromakalim
Lemakalim; Glibenclamide (Tromba, C. (1266) 268)

Crosslinked hemoglobin
Complement activation; Cell-free hemoglobin; Bacterial lipopolysaccharide (Kaca, W. (1245) 49)

Crosslinker
ω-Conotoxin binding; Labeling; Calcium ion channel blocker, N-type; Channel blocker; (Chick brain) (Ichida, S. (1233) 57)

Crosslinking
ATP synthase; ϵ subunit; Topology; Coupling (Aggeler, R. (1230) 62)

Sarcoplasmic reticulum; Ryanodine receptor (Shoshan-Barmatz, V. (1237) 151)

Adrenodoxin reductase; Adrenodoxin; Limited proteolysis (Warburton, R.J. (1246) 39)

Crosslinking theory
Polypeptide chain cross-linking; Porin; Glutardialdehyde; (E. coli) (Azem, A. (1243) 151)

Cross polarization spin dynamics
Sterol function; NMR order parameter; Transverse deuteron relaxation; Relaxation process, ^{13}C; Cooperative lipid motion (Urbina, J.A. (1238) 163)

Cross-reactive epitope
Alzheimer's disease; A4-amyloid; Creatine kinase; Monoclonal antibody (Cazorla, P. (1270) 149)

Cross-reactive protein
Spermatozoa motility inhibiting factor; Protein purification (Mohan, J. (1245) 407)

Crustacean hyperglycemic hormone
Preprohormone; Neurohormone; (*Homarus americanus*) (De Kleijn, D.P.V. (1260) 62)

Cryoenzymology
Kinetic resolution; Lipase; Water-in-oil microemulsion; Organogel; Enantioselectivity (Rees, G.D. (1259) 73)

Cryoprotectant
Glycerol; Phosphatidylethanolamine; Phase diagram; Phase behavior; Crystallization (Yu, Z.-W. (1237) 135)

Cryo-transmission electron microscopy
Liposome-DNA complex; Cationic liposome; DNA; Electron microscopy (Gustafsson, J. (1235) 305)

Cryptand
Alkali cation transport kinetics; Competitive transport selectivity; pH; Lipid membrane (Loiseau, A. (1235) 21)

Crystal
FTIR; Microspectrometry; Protein structure (Hadden, J.M. (1248) 115)

Crystallin
In vivo footprinting; Transgenic mouse; Gene regulation; Lens; Eye (Duncan, M.K. (1261) 68)

Gene; Promoter; Evolution; Heat shock; Stress (Wistow, G. (1263) 105)

α-Crystallin
Chaperone; Protein aggregation; Cataract; Lens; Thermal denaturation (Rao, P.V. (1245) 439)

Lens; Protein–ligand binding; ATP; Intrinsic tryptophan fluorescence spectroscopy (Palmisano, D.V. (1246) 91)

Chaperone; Unfolded protein; Fluorescence spectroscopy; NMR (Carver, J.A. (1252) 251)

δ-Crystallin
Argininosuccinate lyase; CR1; Gene expression; Lens; Enhancer; (Duck) (Li, X. (1261) 25)

γ-Crystallin
Lens protein; Rotational diffusion; Self-association; Protein–protein interaction; Macromolecular crowding (Stevens, A. (1246) 82)

Crystallization
Photosystem I; Thermophilic cyanobacterium; Monomer preparation; Subunit composition (Jekow, P. (1229) 115)

Glycerol; Phosphatidylethanolamine; Phase diagram; Phase behavior; Cryoprotectant (Yu, Z.-W. (1237) 135)

Factorial design; Protein (Sedzik, J. (1251) 177)

Crystallography
Indolepyruvate decarboxylase; Indole-3-acetic acid; Pyruvate decarboxylase; Thiamin diphosphate; Thiamin catalysis (Koga, J. (1249) 1)

C1s
Serine proteinase; Recombinant; BCMGsNeo; Anti-peptide antibody; (Human); (Hamster) (Toyoguchi, T. (1250) 90)

c-ski
Axolotl; Proto-oncogene (Ludolph, D.C. (1260) 102)

Cultured cell
Oxygen; Electron paramagnetic resonance; Fusinite; Light microscopy (Santini, M.T. (1243) 110)

Stereoselectivity; Cancer; Esterase; Anticancer agent; Prodrug; (Rat) (Yamazaki, Y. (1243) 300)

Cultured hepatocyte
Long-term culture; Hormone; Pyruvate; (Rat) (Tomita, Y. (1243) 329)

Current duration
Electroporation; DNA break; Mammalian cell; Electric charge (Meaking, W.S. (1264) 357)

Cyanide
Electrogenic ion transport; Metabolic inhibition; Antimycin A; Azide; Turgor pressure regulation (Wang, J. (1233) 185)

ATP; Phosphocreatine; Hypoxia; (m. soleus) (Katz, A. (1244) 229)

Cyanide inhibition
State I–State II transition; LHC-kinase; (*C. reinhardtii*) (Gans, P. (1228) 51)

Cyanobacterium
Cyclic photophosphorylation; Cyclic electron transport; Photosystem I; Ferredoxin-plastoquinone reductase (Bendall, D.S. (1229) 23)

ATPase, F_0F_1-; Regulation; γ Subunit (Steinemann, D. (1230) 80)

Allophycocyanin; Energy transfer; L_{CM}; Photosystem; Phycobiliprotein (Ajlani, G. (1231) 189)

ATPase, P-type; Major intrinsic protein (MIP); Protein; DNA sequence; (*Synechococcus*) (Kashiwagi, S. (1237) 189)

Surfactant; Detergent; Thylakoid membrane; Solubilization; Turbidity; (*Phormidium laminosum*) (Ochoa de Alda, J.A.G. (1240) 209)

Ultraviolet A; Biopterin glucoside; (*Oscillatoria* sp.) (Wachi, Y. (1244) 165)

Aminopeptidase; Blue-green alga; Proteolysis; (*Anabaena*) (Niven, G.W. (1253) 193)

L-Amino acid oxidase; *aox*A gene; (*Synechococcus* PCC6301) (Bockholt, R. (1264) 289)

Cyclic adenosine 3′,5′-monophosphate
Cyclic guanosine 3′,5′-monophosphate (Kuwayama, H. (1268) 214)

Cyclic electron transport
Cyclic photophosphorylation; Photosystem I; Ferredoxin-plastoquinone reductase; Cyanobacterium (Bendall, D.S. (1229) 23)

Cyclic GMP
Phosphotyrosine protein phosphatase; Isoenzymes (Cirri, P. (1243) 129)

Cyclic guanosine 3′,5′-monophosphate
Cyclic adenosine 3′,5′-monophosphate (Kuwayama, H. (1268) 214)

Cyclic nucleotide
Calcium; Allosteric regulation; Antigen-antibody interaction; Radioimmunoassay (Patrinellis, A.C. (1243) 143)

2′,3′-Cyclic-nucleotide 3′-phosphohydrolase
C-6 glia; Thioridazine; Lipid composition; Membrane fluidity (Saito, M. (1235) 178)

Cyclic oxalic acid ester
α-D-Xylopyranose; Ergosterol; Cytotoxicity; (*A. longa*) (Kaya, K. (1255) 201)

Cyclic phosphate
Lysophosphatidic acid; Cyclopropane; DNA polymerase α family; DNA replication (Murakami-Murofushi, K. (1258) 57)

Cyclic photophosphorylation
Cyclic electron transport; Photosystem I; Ferredoxin-plastoquinone reductase; Cyanobacterium (Bendall, D.S. (1229) 23)

Cyclin
Embryogenesis; Growth control; (Zebrafish) (Yarden, A. (1264) 257)

Cyclin binding region
PCNA; DNA binding region; (Maize) (López, I. (1260) 119)

Cyclin-dependent kinase inhibitor
Cip1/Waf1 (p21) gene; Tumor suppressor gene; PCR-SSCP (Watanabe, H. (1263) 275)

Cyclodextrinase
α-Amylase; Neopullulanase; Nucleotide sequence; (*Actinomycete*) (Tonozuka, T. (1252) 35)

Cycloheximide
Chromaffin; Synexin; Protein synthesis; Secretion; Actinomycin D (Cardenas, A.M. (1234) 255)

PDGF-A; Gene regulation; Serum; 12-*O*-Tetradecanoylphorbol-13-acetate (Takimoto, Y. (1260) 176)

Cyclohexyl adenosine
Longitudinal muscle-myenteric plexus; 4-Aminopyridine; α-Dendrotoxin (Kelly, G. (1266) 131)

Cyclohexylamine
Trophoblast; Cell adhesion; Adhesion molecule; Leukocyte; Fucose-1-phosphate (Douglas, G.C. (1266) 229)

Cyclomaltodextrin glucanotransferase
Site-directed mutagenesis; Histidine mutation; Enzyme kinetics; (*B. circulans* var. *alkalophilus*) (Mattsson, P. (1247) 97)

Cyclooxygenase
EIA; Monoclonal antibody; Acetylcholinesterase; Human platelet; HUVEC (Créminon, C. (1254) 333)

EIA; Monoclonal antibody; Acetylcholinesterase; HUVEC (Créminon, C. (1254) 341)

Phospholipase A_2; Elicited peritoneal macrophage; Prostaglandin E_2; Leukotriene B_4; Transformation growth factor; Indomethacin; Aspirin (Bolognese, B. (1256) 201)

Cyclooxygenase 2
Macrophage; Non steroidal anti-inflammatory drug; Adhesion; Prostaglandin (Tordjman, C. (1256) 249)

Cyclopropane
Lysophosphatidic acid; Cyclic phosphate; DNA polymerase α family; DNA replication (Murakami-Murofushi, K. (1258) 57)

Cyclosporin A
Mitochondrion; Permeability transition; Glutathione; Calcium ion (Reed, D.J. (1271) 43)

Mitochondrion; Calcium ion release (Richter, C. (1271) 67)

Bile acid; Bile acid:CoA ligase; Bile secretion; Conjugation (Vessey, D.A. (1272) 49)

Cyclostome
Hemoglobin; Aggregation; Oxygen binding; Chloride effect; Carbon dioxide effect; Bohr effect; (Hagfish); (*M. glutinosa*) (Fago, A. (1249) 109)

CYP24
cDNA cloning; Cytochrome *P*-450; 1α,25-Dihydroxyvitamin D-3; Vitamin D-3 (Itoh, S. (1264) 26)

CYP3A
Cytochrome *P*-450; Gene expression; (Rat liver) (Strotkamp, D. (1260) 341)

Cytochrome *P*-450; Pseudogene; Gene evolution (Schuetz, J.D. (1261) 161)

CYP1A2
Cytochrome P-450; Enzyme induction; Caffeine; Ah receptor (Ayalogu, E.O. (1272) 89)

Cystatin
Transamination; N-terminus (Stevens, J. (1252) 195)

Cysteine
Lysosome; Transport; Carrier protein; Histidine; Diethyl pyrocarbonate (Pisoni, R.L. (1236) 23)

Iron; Peroxide; Dopamine; 5-*S*-Cysteinyldopamine; Parkinson's disease (Palumbo, A. (1245) 255)

Leghemoglobin; Sulfhydryl group; EPR; Oxidative damage; Nitrogen fixation; (Root nodule) (Puppo, A. (1246) 74)

Cysteinylglycine; Cell culture; Glutathione; Homocysteine (Hultberg, B. (1269) 6)

Cysteine biosynthesis
Cysteine synthase; *O*-Acetylserine (thiol)-lyase; *O*-Acetyl-L-serine; Sulfate assimilation (Yamaguchi, T. (1251) 91)

Cysteine endopeptidase
cDNA sequence; Developing seed; Polymerase chain reaction; (*Glycine max.*) (Nong, V.H. (1261) 435)

Cysteine proteinase
Ginger protease; *p*-Chloromercuribenzoate; Isoelectric focusing; SDS electrophoresis; TSK G2000 gel chromatography (Ohtsuki, K. (1243) 181)

Bromelain; Thermal denaturation; Circular dichroism; DSC (Arroyo-Reyna, A. (1248) 123)

cDNA; (Corn seed) (Domoto, C. (1263) 241)

Cysteine *S*-conjugate
Mitochondrion; Bioactivation; 4-Thiaalkanoate; Toxicity (Anders, M.W. (1271) 51)

Cysteine sulfinic acid decarboxylase
Taurine; cDNA (Kaisakia, P.J. (1262) 79)

Cysteine synthase
Cysteine biosynthesis; *O*-Acetylserine (thiol)-lyase; *O*-Acetyl-L-serine; Sulfate assimilation (Yamaguchi, T. (1251) 91)

5-*S*-Cysteinyldopamine
Iron; Peroxide; Dopamine; Cysteine; Parkinson's disease (Palumbo, A. (1245) 255)

Cysteinylglycine
Cysteine; Cell culture; Glutathione; Homocysteine (Hultberg, B. (1269) 6)

Cysteinyl leukotriene
LTC_4 synthase; Experimental glomerulonephritis (Petric, R. (1254) 207)

Cystic fibrosis
CFTR expression; antisense mRNA; Down-regulation; (HT29-derived cell line) (Wardle, C.J.C. (1261) 417)

1-Hydroxyphenazine; (*P. aeruginosa*) (Muller, M. (1272) 185)

Cystine diet
Hepatic lipase; Lipoprotein lipase; HDL_1; Gene expression; (Rat) (Benhizia, F. (1255) 50)

Cystinyl aminopeptidase
Oxytocin; Vasopressin; (Porcine kidney) (Itoh, C. (1243) 203)

Cys-/Trp-less mutant
ATPase; ATPase, F_1-; F_1; Thermophile; Subunit complex (Matsui, T. (1231) 139)

Cytochrome
Electron transfer; Archaea (Lübben, M. (1229) 1)

Alkaliphile; Respiration; Oxidative phosphorylation (Hicks, D.B. (1229) 303)

Cytochrome oxidase; Prokaryotic quinol oxidase; (*B. subtilis*) (Villani, G. (1232) 67)

Cytochrome aa_3-600
Raman spectroscopy; Peroxyheme a_3; Compound C (Varotsis, C. (1231) 111)

D1-D2 cytochrome *b*-559 complex; Photosystem II; Heme; EPR (Shuvalov, V.A. (1228) 175)

Cytochrome *b*
Facultative phototroph; Cytochrome *c*; Respiratory chain; Membrane-bound oxidase; (*Rf. fermentans*) (Hochkoeppler, A. (1229) 73)

Cytochrome *b*-558
Vascular smooth muscle; Superoxide anion; NADPH oxidase; cDNA cloning (Fukui, T. (1231) 215)

Cytochrome *b*-559
Membrane orientation; Membrane potential; NADPH oxidase; Liposome (Koshkin, V. (1229) 329)

D1-D2 cytochrome *b*-559 complex; Photosystem II; Heme; EPR (Shuvalov, V.A. (1228) 175)

High redox potential form; Photosystem II; Redox titration; Calcium; Thylakoid membrane (McNamara, V.P. (1231) 289)

Cytochrome bc_1 complex
Cytochrome-*c* reductase; Respiratory chain; Protein transport; Mitochondrion; (*S. tuberosum*) (Braun, H.-P. (1229) 181)

Cytochrome b_5
Microsome; Desaturation; Polyunsaturated fatty acid; (*Mortierella*) (Kouzaki, N. (1256) 319)

Cytochrome *bc*
Nitric oxide reductase; Denitrification; (*P. aeruginosa*) (Arai, H. (1261) 279)

Cytochrome bc_1 complex
Antimycin A; Mitochondrion; Structure–activity relationship (Miyoshi, H. (1229) 149)

Cytochrome *c*
Pyranine; Photooxidation; Electron transfer (Kotlyar, A.B. (1228) 87)

Mitochondrion; Electron transport; Lipid–protein interaction (Cortese, J.D. (1228) 216)

Facultative phototroph; Cytochrome *b*; Respiratory chain; Membrane-bound oxidase; (*Rf. fermentans*) (Hochkoeppler, A. (1229) 73)

Electron transport; Nitrogen fixation; Respiratory protection; (*A. vinelandii*) (Ng, T.C.N. (1230) 119)

NMR, two-dimensional; 1-Methylimidazole (Shao, W. (1248) 177)

Protein function; Stabilization; Subtilisin; Molecular interaction; Protein engineering; Site-specific mutagenesis; Metal-mediated cross-linking (Ó Fágáin, C. (1252) 1)

Cytochrome *c'*
Nucleotide sequence; (*C. vinosum*) (Even, M.T. (1231) 220)

EPR; Photosynthetic bacterium; Spin state, quantum mechanically admixed (Fujii, S. (1251) 161)

Cytochrome *c*-550
Oxygen evolution; Photosystem II; Extrinsic protein; Protein, 12 kDa; (Red algae) (Enami, I. (1232) 208)

Amino acid substitution, His-26 to Val; Amino acid substitution, His-33 to Phe; Double mutant; Local stability; Global stability (Qin, W. (1252) 87)

Cytochrome *c* oxidase
Muscular biopsy; Mitochondrion; Citrate synthetase; Respiratory complex; (Human muscle) (Lefai, E. (1228) 43)

Pet mutation; COX2; COX1; *MSS2*; (*S. cerevisiae*) (Simon, M. (1228) 95)

Tetraether lipid; Reconstitution (Elferink, M.G.L. (1230) 31)

Thiopropionyl cytochrome *c*; Chemically modified cytochrome *c*; Chromatographic separation; Charge reversal effect; Oxidase activity (Theodorakis, J.L. (1252) 114)

Mitochondrion; ATPase, F_1-; Mitochondrial disease; (Cultured human cell) (Nijtmans, L.G.J. (1265) 117)

Enzyme kinetics; Mitochondrial disease; Encephalomyopathy; Fibroblast; (Human) (Nijtmans, L.G.J. (1270) 193)

Nucleotide binding; Tissue-specific isozyme; Subunit composition; Proton pump; Leigh's syndrome (Kadenbach, B. (1271) 103)

Cytochrome *c* reductase
bc_1 complex; Respiratory chain; Protein transport; Mitochondrion; (*S. tuberosum*) (Braun, H.-P. (1229) 181)

Mitochondrion; Iron-sulfur protein; Targeting presequence; cDNA; (*C. fasciculata*); (*T. brucei*) (Priest, J.W. (1269) 201)

Cytochrome, *c*-type
Bacterial photosynthesis; Photosynthesis; Electron transfer; (*Rf. fermentans*) (Hochkoeppler, A. (1229) 81)

Cytochrome oxidase
Calorimetry; Thermal stability; Bacteriorhodopsin; Band 3 protein; Photosystem II (Haltia, T. (1228) 1)

Time-resolved spectroscopy; Electron transfer; Proton translocation; Carbon monoxide photodissociation (Einarsdóttir, Ó. (1229) 129)

Cytochrome; Prokaryotic quinol oxidase; (*B. subtilis*) (Villani, G. (1232) 67)

Yeast; Subunit interaction; Structure; (*S. cerevisiae*) (Meunier, B. (1253) 13)

Cytochrome *P*-450
Membrane proliferation; Endoplasmic reticulum; Immunocytochemistry; (*C. maltosa*) (Ohkuma, M. (1236) 163)

Electron transfer; Photoreduction; Hemoprotein; Detergent (Nakano, R. (1252) 245)

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Cytochrome *P*-450 BM3
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Cytochrome *P*-4502E1
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D609
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Daidzein
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Deduced amino acid sequence
Polyubiquitin gene; cDNA; (Marine red alga); (*G. verrucosa*) (Zhou, Y.-H. (1261) 215)

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Deer antler
Bone morphogenetic protein 4; mRNA transcript; Noncoding exon (Feng, J.Q. (1263) 163)

Defense mechanism
Hydroperoxyoctadecatrienoic acid; 2-Penten-1-ol; 13-Oxotrideca-9,11-dienoic acid; Hydroperoxide lyase; Elicitor; (Soybean) (Kondo, Y. (1255) 9)

Defensin
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Deficiency
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Deformability
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***N*-Deglycosylation**
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Degradation
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Dehalogenase
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Dehydration
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Phospholipase A_2; Liposome (Oliver, A.E. (1267) 92)

Dehydroascorbate
Oxidized LDL; Ascorbate; Copper; Iron; Lipid peroxidation (Retsky, K.L. (1257) 279)

Dehydroputrescine
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mtDNA; Point mutation; Oxygen free radical damage; Aging; Degenerative disease; Apoptosis (Ozawa, T. (1271) 177)

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Deletion mutant
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Denaturant-induced unfolding
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Denaturation
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pH; Intermediate; Protein folding; Self-association; Growth hormone; (Human) (DeFelippis, M.R. (1247) 35)

Aminoacylase; Inactivation; Conformation; Kinetic analysis (Wang, H.-R. (1248) 97)

Alkaline phosphatase; CD; FTIR; Secondary structure; Protein folding (De La Fournière, L. (1248) 186)

Rhodanese; Disulfide; Site-directed mutagenesis; Protein folding (Horowitz, P.M. (1249) 161)

Glycation; Glycosylation; Glyceraldehyde-3-phosphate dehydrogenase; Conformation (He, R.-Q. (1253) 47)

Active site; Conformational change; Creatine kinase; Guanidine hydrochloride; Spin labeling (Liu, Z.-J. (1253) 63)

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Denaturation capacity
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α-Dendrotoxin
Longitudinal muscle-myenteric plexus; Cyclohexyl adenosine; 4-Aminopyridine (Kelly, G. (1266) 131)

Denitrification
Enzyme; Respiration; Oxyanion reduction; Nitrogen oxide reduction; Electron transport (Berks, B.C. (1232) 97)

Nitric oxide reductase; Cytochrome *bc*; (*P. aeruginosa*) (Arai, H. (1261) 279)

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De novo purine synthesis
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3-Deoxy-D-galactose
Proteoglycan; Glycosaminoglycan; D-Glucuronic acid analogue; Glycosaminoglycan synthesis; Protein synthesis; Hepatocyte (Thomas, S.S. (1272) 37)

Dephosphorylation
Electrogenic transport; ATPase, Na^+/K^+-; Reconstitution; Uncoupled sodium ion efflux; Sodium–sodium ion exchange; Hydrophobic ion; Membrane potential (Cornelius, F. (1235) 183)

ATPase, Na^+/K^+-; Phosphorylation; Reconstitution; Oligomeric structure (Cornelius, F. (1235) 197)

ATPase, Na^+/K^+-; Phosphorylation; Reconstitution; Cholesterol (Cornelius, F. (1235) 205)

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Derivatized dextran
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Dermatan sulfate
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Δ^9-Desaturase
Peroxisome proliferator; Transcriptional regulation; Brown adipose tissue (Diczfalusy, U. (1259) 313)

Desaturation
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Polyunsaturated fatty acid; Elongation; Cell differentiation; Leukemia; Lymphoma; (Human) (Marzo, I. (1257) 140)

Desensitization
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Des (1-3) IGF-I
Proteoglycan synthesis; [^{35}S]Sulfate incorporation; Monolayer (Sunic, D. (1245) 43)

Detergent
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Phospholipid; Sarcoplasmic reticulum; ATPase, Ca^{2+}- (Ding, J. (1234) 166)

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Tyrosinase; Dopachrome tautomerase; Melanosome; Lipid; Melanization; Membrane protein (Jiménez-Cervantes, C. (1243) 421)

Cytochrome *P*-450; Electron transfer; Photoreduction; Hemoprotein (Nakano, R. (1252) 245)

Detoxication
Microsomal glutathione transferase; Enzyme mechanism (Andersson, C. (1247) 277)

Detoxification
Aldose reductase; Substrate specificity; 4-Hydroxynonenal; Diabetic complication (Vander Jagt, D.L. (1249) 117)

Developing seed
cDNA sequence; Cysteine endopeptidase; Polymerase chain reaction; (*Glycine max.*) (Nong, V.H. (1261) 435)

Development
Fucoprotein; Fucosylation; Intestine; Weaning; Glycosylation (Lenoir, D. (1234) 29)

Nucleotide sequence; Cloning; Electron transport chain; (*Mus musculus*) (Grossman, L.I. (1260) 361)

Developmental expression
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Dexamethasone
Lecithin:cholesterol acyltransferase; Apo A-I; Liver; TGF-β; IL-6; Regulation; mRNA; HepG2 cell (Skretting, G. (1255) 267)

Dextran sulfate
HIV envelope glycoprotein; Derivatized dextran (Carré, V. (1243) 175)

Diabetes
Site-directed mutagenesis; Aldose reductase; Inhibition; Kinetics; Polyol pathway; Rat lens (Carper, D.A. (1246) 67)

Non-enzymatic glycosylation; Maillard reaction; Collagen; Plasma protein; Aging (Portero-Otin, M. (1247) 74)

Lipoprotein (a); *N*-Acetylcysteine; LDL composition; LDL function (Gilligan, S. (1254) 187)

Advanced glycosylation end product; Atherosclerosis; Oxidation; Lipid peroxide; (Human) (Dobrian, A. (1270) 26)

Glycated protein; Glycation; Hexitol-lysine antibody; Tissue distribution (Myint, T. (1272) 73)

Diabetes mellitus
Mitochondrial DNA; DNA; Wolfram syndrome (Gerbitz, K.-D. (1271) 253)

Diabetic complication
Aldose reductase; Substrate specificity; 4-Hydroxynonenal; Detoxification (Vander Jagt, D.L. (1249) 117)

1,2-Diacylglycerol
Phospholipase D; Calcium ion; Cholesterol; α-Tocopherol; FTIR (Yamamoto, I. (1233) 21)

Diacylglycerol
Translocation PKC; Cholecystokinin; Protein kinase C; Tetradecanoyl phorbol acetate; L-364,718 (Bastani, B. (1269) 307)

Diacylglycerol metabolism
Signal transduction; (Bovine aorta) (Lee, M.W. (1254) 311)

Diadenosine polyphosphate
Ap_4A; Diinosine polyphosphate; Adenylate deaminase; (*Helix pomatia*) (Guranowski, A. (1243) 78)

Dinucleoside polyphosphate; Diethenoadenosine polyphosphate; Fluorogenic substrate; Dinucleoside tetraphosphate (asymmetrical) hydrolase; Dinucleoside triphosphate hydrolase; (Chromaffin cell) (Ramos, A. (1253) 103)

Diamide
NF-κB; *N*-Acetylcysteine; Pyrolidine dithiocarbamate; Reactive oxygen intermediate; Antioxidant (Brennan, P. (1260) 167)

Diamine oxidase
Intestinal growth; Phytohemagglutinin; Polyamine; Polyamine oxidase (Sessa, A. (1244) 198)

Inhibition; Alkaloid; (Porcine); (Kidney) (Cheng, E. (1253) 189)

Diaminobutene
Porcine kidney diamine oxidase; Dehydroputrescine; Mechanism-based inactivation; Copper-containing amine oxidase (He, Z. (1253) 117)

Diapause hormone and pheromone biosynthesis activating neuropeptide gene
Gene cloning; Gene sequencing; Neuropeptide; Embryonic diapause; (*B. mori*) (Xu, W.-H. (1261) 83)

Diarrhoea
Calcium ion; Calmodulin; Protein kinase C; Enterotoxin; (Rat); (*C. jejuni*) (Kanwar, R.K. (1270) 179)

Diarylsulfonylurea
Sulfonylurea; Antitumor drug; Binding protein; (HeLa cell) (Morré, D.J. (1236) 237)

Sulfonylurea; Antitumor drug; NADH oxidase; Plasma membrane; HeLa cell; Hepatoma; (Rat liver) (Morré, D.J. (1240) 11)

Sulfonylurea; Antitumor drug; Binding protein; HeLa cell (Morré, D.J. (1244) 133)

Dibutyryl guanosine 3',5'-cyclic monophosphate
Sodium nitroprusside; Pepsinogen secretion; Calcium ion, intracellular; Monolayer culture (Okayama, N. (1268) 185)

Di-calciphor
Cell injury; Mitochondrial dysfunction; Anoxia (Jones, D.P. (1271) 29)

1,6-Dichloro-1,6-dideoxy-D-fructose
(*S*)-3-Chlorolactaldehyde; Aldolase; Glyceraldehyde-3-phosphate dehydrogenase; Glycolytic inhibition; (Boar spermatozoa) (Jones, A.R. (1244) 141)

Diclofenac
Immunochemistry; Anti-inflammatory drug; Histocompatibility; Hepatotoxicity; (Human); (Rat) (Gil, M.L. (1272) 140)

2',5'-Dideoxyadenosine
Adenylyl cyclase; Adenylyl cyclase; P-site inhibition; Iodo-aryl-azide; Photoaffinity ligand (Shoshani, I. (1245) 37)

Chloroquine diphosphate; Cholesteryl ester hydrolytic activity; cyclic AMP-dependent protein kinase; H-89 (cyclic AMP-dependent protein kinase inhibitor); Iloprost; Phospholipid; Platelet (Barre, D.E. (1254) 180)

Dideoxyforskolin
Inner medullary collecting duct; Volume regulation; Chloride conductance; Potassium ion conductance; Hypotonic stress; (Rat) (Sauer, H. (1239) 99)

Di-docosahexaenoylphosphatidylcholine
Docosahexaenoic acid; Cholesterol (Zerouga, M. (1236) 266)

Dielectric property
Biofilm; Electrorotation; Conductivity; Viability; Biocide (Zhou, X.-F. (1245) 85)

Dielectric relaxation
Photosynthesis; Electron transfer; Charge separation; Protein relaxation; Protein as a dielectric (Krishtalik, L.I. (1228) 58)

Permittivity; Interfacial polarization; Cell concentration; Growth curve; (*S. cerevisiae*) (Asami, K. (1245) 99)

Permittivity; Interfacial polarization; Non-spherical cell; Synchronized culture; Growth curve (Asami, K. (1245) 317)

Ion fluctuation; DNA chain bending (Bone, S. (1260) 85)

Dielectrophoresis
Electrorotation; Travelling-wave dielectrophoresis; Dipole moment (Wang, X.-B. (1243) 185)

2,4-Dienoyl-CoA reductase
Beta-Oxidation; Polyunsaturated fatty acid; Rate-limiting step; Growth hormone (Nada, M.A. (1255) 244)

Diet
Oleic acid; Palmitic acid; LDL receptor; Cholesteryl ester transfer protein; Cholesterol 7α-hydroxylase (Kurushima, H. (1258) 251)

Dietary carbohydrate
Sucrase-isomaltase; mRNA; Long-chain triacylglycerol; Medium-chain triacylglycerol; Jejunum; (Rat) (Yasutake, H. (1243) 270)

Dietary cholesterol
Soluble fiber; Hepatic cholesterol synthesis; LDL production; LDL receptor (Turley, S.D. (1255) 177)

Dietary fat
Chylomicron; Chylomicron remnant; Triacylglycerol; Fatty acid; (Rat liver) (Bravo, E. (1258) 328)

Dietary fatty acid
Calcium; Cholesterol; Signal transduction; Platelet; (Rat) (Heemskerk, J.W.M. (1255) 87)

Dietary lipid
Lymphocyte; Fatty acid composition; Membrane fluidity; Fish oil (Yaqoob, P. (1255) 333)

Diethenoadenosine polyphosphate
Dinucleoside polyphosphate; Diadenosine polyphosphate; Fluorogenic substrate; Dinucleoside tetraphosphate (asymmetrical) hydrolase; Dinucleoside triphosphate hydrolase; (Chromaffin cell) (Ramos, A. (1253) 103)

Diethyl pyrocarbonate
Lysosome; Transport; Cysteine; Carrier protein; Histidine (Pisoni, R.L. (1236) 23)

Diethyl pyrocarbonate reactivity
Negative supercoiling; Potassium permanganate reactivity; DNA conformation, non-B (Wölfl, S. (1264) 294)

Differential display
Gene expression; Embryonic development; (*X. laevis*) (Adati, N. (1262) 43)

Differential splicing
Hepatocyte nuclear factor 4; Isoform; Splice donor site; (Mouse liver) (Hata, S. (1260) 55)

Homeobox; Homeodomain; Zinc finger; (Chinook salmon); (Fish) (Gong, Z. (1260) 349)

Pancreatitis associated protein II; Gene transcript (Vasseur, S. (1261) 272)

Differentiation
Glycosyltransferase; Lymphocyte, B-; Carbohydrate antigen; Gb3/CD77 (Taga, S. (1254) 56)

Hydroxyurea; c-jun; Regulation; Transcription; Erythroid (Adunyah, S.E. (1263) 123)

Articular chondrocyte; Transglutaminase activity; Retinoic acid; Collagen synthesis; Aging (Demignot, S. (1266) 163)

cDNA sequence; P19 cell; Pyruvate kinase (Izumi, S. (1267) 135)

Superoxide dismutase; Starvation; Sporulation; (*F. oxysporum*) (Kono, Y. (1268) 35)

CaM PKIII; Elongation factor 2; Phosphorylation; Proliferation (Nilsson, A. (1268) 263)

Thromboxane A synthase; Prostaglandin H synthase; Megakaryocyte (Matijevic-Aleksic, N. (1269) 167)

Differentiation inhibitory factor
Leukemia; Nm23; Nucleoside diphosphate kinase (Okabe-Kado, J. (1267) 101)

Diffusion
Lipid monolayer; Polymer; Membrane; Electrophoresis; Photobleaching; FRAP (Dietrich, C. (1238) 183)

Chitosan-entrapped UDP-glucuronyl transferase; Immobilization (Zihnioğlu, F. (1244) 291)

Prostaglandin E_1; Lipid emulsion; Emulsion; Lipid particle; Release (Yamaguchi, T. (1256) 381)

Digitonin precipitation
Cholesterol peroxidation; Cholest-3,5-dien-7-one; Lipoprotein (Hahn, M. (1255) 341)

Dihydroceramide
Acyl-CoA:cholesterol acyltransferase; Ceramide; CHO cell (Ridgway, N.D. (1256) 39)

Dihydrodiol dehydrogenase
Aldo/keto reductase; Reaction mechanism; Indanol; Bile acid (Nanjo, H. (1244) 53)

Dihydrofolate reductase
Activation; Inactivation; Protein unfolding; Urea (Fan, Y.-x. (1252) 151)

Thymidylate synthase; Bifunctional polypeptide; Nucleotide sequence; Amino acid sequence; Expression (Wang, M. (1261) 325)

Dihydrolipoic acid
Heart; Mitochondrion; α-Lipoic acid; Superoxide radical; Ubisemiquinone (Schönheit, K. (1271) 335)

Dihydroorotate dehydrogenase
Mitochondria; Malaria parasite; (*P. falciparum*) (Krungkrai, J. (1243) 351)

Dihydrorhodamine-123
Macrophage; U-937 cell; fMLP; Superoxide ion; Fura-2; Rhodamine-123 (Bueb, J.-L. (1244) 79)

Dihydroxyacetone phosphate acyltransferase
Alkyl-dihydroxyacetone phosphate synthase; Microbody; Glycosome; Subcellular localization; (*T. brucei*) (Zomer, A.W.M. (1257) 167)

1,25-Dihydroxyvitamin D-3
Monocyte; Cell differentiation; Retinoic acid; Superoxide anion (Obermeier, H. (1269) 25)

Myoblast; Calcium ion uptake; cyclic AMP; G-protein; Signal transduction (Vazquez, G. (1269) 91)

1α,25-Dihydroxyvitamin D-3
cDNA cloning; CYP24; Cytochrome *P*-450; Vitamin D-3 (Itoh, S. (1264) 26)

Diinosine polyphosphate
Diadenosine polyphosphate; Ap_4A; Adenylate deaminase; (*Helix pomatia*) (Guranowski, A. (1243) 78)

Diisopropylphosphofluoridate
Raman spectroscopy; Butyrylcholinesterase; Inhibition; Soman; Paraoxon (Aslanian, D. (1249) 37)

Dilution
Saturation transfer; Relaxation time; Rate constant; NMR, ^{31}P-; Creatine kinase (Conrad, A. (1243) 117)

Dimer
Ironporphyrin; Mixed valence state; Mössbauer spectroscopy (Burda, K. (1244) 345)

Lipoprotein lipase; Aggregation; Monomer; Hyperchylomicronemia (Masuno, H. (1254) 30)

Dimeric protein
Hydrophobic surfactant protein; Acylated protein; Surface tension; Pulmonary surfactant (Creuwels, L.A.J.M. (1254) 326)

Dimerization
Lipoprotein lipase; Glycosylation; Heparin affinity (Park, J.-W. (1254) 45)

Dimethyl amiloride
Apoptosis; Sodium ion/hydrogen ion antiport; pH, intracellular; HL-60 cell; Phorbol 12-myristate 13-acetate (Zhu, W.-H. (1269) 122)

Dimethylsphingosine
Glycosphingolipid, lyso-; NMR, ^{2}H- (Rigby, A.C. (1240) 75)

Dimethylsulfoxide
ATPase, Na^+/K^+-; Phosphoenzyme from P_i; Ouabain binding (Fontes, C.F.L. (1235) 43)

Dimiristoylphosphatidylethanolamine
Metastability; α-Tocopherol; FTIR (Salgado, J. (1239) 213)

Dinucleoside polyphosphate
Diadenosine polyphosphate; Diethenoadenosine polyphosphate; Fluorogenic substrate; Dinucleoside tetraphosphate (asymmetrical) hydrolase; Dinucleoside triphosphate hydrolase; (Chromaffin cell) (Ramos, A. (1253) 103)

Dinucleoside tetraphosphate (asymmetrical) hydrolase
Dinucleoside polyphosphate; Diadenosine polyphosphate; Diethenoadenosine polyphosphate; Fluorogenic substrate; Dinucleoside triphosphate hydrolase; (Chromaffin cell) (Ramos, A. (1253) 103)

Dinucleoside triphosphate hydrolase
Dinucleoside polyphosphate; Diadenosine polyphosphate; Diethenoadenosine polyphosphate; Fluorogenic substrate; Dinucleoside tetraphosphate (asymmetrical) hydrolase; (Chromaffin cell) (Ramos, A. (1253) 103)

Diosgenin
Biliary lipid; Biliary cholesterol; Liver; (Rat) (Roman, I.D. (1255) 77)

Dioxygenase
Lignin biodegradation; *trans*-Ferulic acid; *p*-Coumaric acid; (*Acinetobacter calcoaceticus*) (Delneri, D. (1244) 363)

EPR; Iron-sulfur center; Rieske center; Ferredoxin; Monooxygenase; (*P. putida*) (Rosche, B. (1252) 177)

Dipalmitoylphosphatidylcholine
Cholesterol; DSC; Bilayer (McMullen, T.P.W. (1234) 90)

Surface balance; Langmuir film; Dipalmitoylphosphatidylglycerol; Lipid–protein interaction (Taneva, S.G. (1236) 185)

Calcium ion; Binding constant; Electrophoresis; Liposome; Shear plane (Satoh, K. (1239) 239)

Erythrocyte membrane; Plasma; Sphingomyelin; Phospholipid turnover; Molecular species composition (Van den Boom, M.A.P. (1258) 265)

Dipalmitoylphosphatidylglycerol
Surface balance; Langmuir film; Dipalmitoylphosphatidylcholine; Lipid–protein interaction (Taneva, S.G. (1236) 185)

Dipeptide
Membrane transport; Small intestine; Stereospecificity; (Rat) (Sykes, A.P. (1237) 70)

Diphenolase activity
Tyrosinase; Melanogenesis; Reaction mechanism; Monophenolase activity (Sánchez-Ferrer, Á. (1247) 1)

Diphenyleniodonium
Anoxia; Reoxygenation; Cell injury; Lactic dehydrogenase; Oxygen free radical; Superoxide; Allopurinol; Antimycin; Superoxide dismutase; Tetramethylpiperidine-1-oxyl (Caraceni, P. (1268) 249)

Diphenylhexatriene
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Diplomonad
Phosphofructokinase gene; Nucleotide sequence; Amino acid sequence; Amitochondriate protist; (*G. lamblia*) (Rozario, C. (1260) 218)

Dipole moment
Fluorescence-detected electric dichroism; Rotational relaxation; ATPase, Na^+/K^+- (Porschke, D. (1231) 181)

Dielectrophoresis; Electrorotation; Travelling-wave dielectrophoresis (Wang, X.-B. (1243) 185)

Dipyridamole
Vasodilator; Fluorescence quenching; Micelle; Drug localization (Borissevitch, I.E. (1238) 57)

Microcalorimetry; Combination chemotherapy; Methotrexate; 6-Thioguanine; 6-Mercaptopurine (Roig, T. (1244) 283)

Distal residue
NMR, ^{1}H-; EPR; Myoglobin; Heme methyl proton hyperfine shift (Yamamoto, Y. (1248) 149)

Distance geometry
Structure determination; Amphipathic helix; Alpha helix; Spiralin; NMR; Annealing (Bondon, A. (1235) 169)

Distance-geometry calculation
Polymyxin analogue; Peptide conformation; ROESY spectrum; Restraint molecular dynamics simulation; NMR (Liao, S.-Y. (1252) 312)

Disulfide
Rhodanese; Site-directed mutagenesis; Protein folding; Denaturation (Horowitz, P.M. (1249) 161)

Disulfide bond
ATPase; Acid secretion; Tryptic sensitivity; Conformational stability (Tyagarajan, K. (1236) 105)

Ricin; Toxicity; Protein structure (Mohanraj, D. (1243) 399)

Azurin; Site-directed mutagenesis; Electron paramagnetic resonance; Fluorescence; Circular dichroism; (*P. aeruginosa*) (Bonander, N. (1251) 48)

Carbohydrate structure; Glycoprotein; Alloalbumin; *N*-Glycosylation (Sakamoto, Y. (1252) 209)

Disulfide linkage
Proteinase inhibitor; Bowman–Birk type inhibitor; Structure–activity relationship; (*D. biflorus*); (*M. uniflorum*) (Ramasarma, P.R. (1248) 35)

Disulfide reduction
Anticoagulant peptide; Secondary structure; Tertiary structure; Circular dichroism; Fourier transform infrared spectroscopy; Fluorescence; Molten globule (Sanyal, G. (1249) 100)

Dithiocarbamate
Spin trapping; EPR; Nitric oxide; Lipopolysaccharide; (Mice) (Komarov, A.M. (1272) 29)

Diurnal rhythm
Cholesterol biosynthesis; Sterol 14-reductase (Kim, C.-K. (1259) 39)

Diuron
CP43; CP47; D2; Fluorescence induction; Precursor of D1 protein; (*S. obliquus*) (Gong, H. (1228) 181)

Divalent cation
Dehydration; Rehydration; Hemolysis; Melittin; Membrane lesion (Rudenko, S.V. (1235) 1)

Divalent phosphate, intervesicular
Sodium ion/phosphate cotransporter; Phosphate transport; pH effect; Substrate effect; Allosteric regulatory site; Brush-border membrane; (Intestine) (Peerce, B.E. (1239) 1)

Divergent promoter
Amidophosphoribosyltransferase; Aminoimidazole ribonucleotide carboxylase; De novo purine synthesis; Cell cycle; Polymerase chain reaction; (Rat) (Iwahana, H. (1261) 369)

DMSO
c-*myc*; MCF-7; Topoisomerase II inhibitor VM-26; Down-regulation (Orr, M.S. (1262) 139)

D1 mutant
Bicarbonate effect; D_1 protein; Amino acid interaction; Photosystem II; (*Synechocystis* 6714) (Vernotte, C. (1229) 296)

DNA
Liposome-DNA complex; Cationic liposome; Cryo-transmission electron microscopy; Electron microscopy (Gustafsson, J. (1235) 305)

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Esperamicin; Induced fit; Hydrophobic binding (Uesugi, M. (1261) 99)

Nuclease; Purification; Characterization; RNA; (*E. chrysanthemi*) (Moulard, M. (1262) 133)

Mitochondrial DNA; Mutation; Bioenergy; Coenzyme Q (ubiquinone); AZT (Linnane, A.W. (1271) 191)

Mitochondrial DNA; Diabetes mellitus; Wolfram syndrome (Gerbitz, K.-D. (1271) 253)

DNA adduct
Lipid peroxidation; Liver cell; Antioxidant (Cao, E.-H. (1259) 187)

DNAaseI hypersensitivity site
mts1 gene; DNA methylation; Gene transcription (Tulchinsky, E. (1261) 243)

DNA bending
HU; Integration host factor; curved DNA (Shimizu, M. (1264) 330)

DNA binding domain
PCR; COUP-TFI; Ti domain; (Rat brain) (Yoshikawa, T. (1264) 63)

DNA binding protein
Transcription; Transcription factor (Dairaghi, D.J. (1271) 127)

DNA binding region
PCNA; Cyclin binding region; (Maize) (López, I. (1260) 119)

DNA break
Electroporation; Mammalian cell; Electric charge; Current duration (Meaking, W.S. (1264) 357)

DNA chain bending
Dielectric relaxation; Ion fluctuation (Bone, S. (1260) 85)

DNA conformation, non-B
Negative supercoiling; Diethyl pyrocarbonate reactivity; Potassium permanganate reactivity (Wölfl, S. (1264) 294)

DNA damage
Immuno-analysis; Enzyme-immunoassay; Immunoslot blot; Ethylnitrosourea; O^4-Ethylthymine; DNA repair; Alkyltransferase (Musarrat, J. (1260) 276)

Pluramycin; Chromatin; Alphoid DNA; Nucleosome; Alpha RI DNA (Murray, V. (1261) 195)

Ethylnitrosourea; Alkyl adduct; DNA repair; Plasmid vector; Restriction enzyme; Restriction protection; Immunoprobing; (*E. coli*) (Musarrat, J. (1263) 201)

DNA fragmentation
Endonuclease; Apoptosis (Sokolova, I.A. (1266) 135)

DnaJ
cDNA; Sis1; Heat shock; (*S. pombe*) (Park, S.-K. (1262) 87)

***dnaK* locus**
orf16; Transcription; Archaeon vs. bacterium; (*Methanosarcina mazei*) (Macario, A.J.L. (1264) 173)

DNA methylation
Transient expression (Komura, J.-i. (1260) 73)

mts1 gene; DNAaseI hypersensitivity site; Gene transcription (Tulchinsky, E. (1261) 243)

DNA polymerase
Aphidicolin resistance; Resistance to arabinosyl nucleotide; 3′ Exonuclease activity; (Chinese hamster ovary cell) (Fehér, Z. (1263) 141)

Exonuclease; Processivity; (*Thermus aquaticus*) (Merkens, L.S. (1264) 243)

DNA polymerase α family
Lysophosphatidic acid; Cyclopropane; Cyclic phosphate; DNA replication (Murakami-Murofushi, K. (1258) 57)

DNA–protein interaction
Fluorescence oligonucleotide; Repressor (Hagmar, P. (1244) 259)

Glucocorticoid receptor; Transcriptional factor; Oxidant; Anti-oxidant (Esposito, F. (1260) 308)

RecA; Triplex DNA; Homologous recombination (Kim, S.K. (1264) 129)

DNA relaxation
Polyoma large T antigen; Camptothecin; Scleroderma; Magnesium ion-dependent topoisomerase (Marton, A. (1262) 59)

DNA renaturation
Single-stranded DNA; Histone (Fernandez-Busquets, X. (1260) 132)

DNA repair
Immuno-analysis; Enzyme-immunoassay; Immunoslot blot; Ethylnitrosourea; DNA damage; O^4-Ethylthymine; Alkyltransferase (Musarrat, J. (1260) 276)

Ethylnitrosourea; DNA damage; Alkyl adduct; Plasmid vector; Restriction enzyme; Restriction protection; Immunoprobing; (*E. coli*) (Musarrat, J. (1263) 201)

ADP ribose; Enzyme kinetics; Polymerase; Poly(ADP-ribose) metabolism (Lagueux, J. (1264) 201)

Gene expression; MGMT; MPG; Hepatocyte; (Rat) (Grombacher, T. (1270) 63)

DNA replication
Lysophosphatidic acid; Cyclopropane; Cyclic phosphate; DNA polymerase α family (Murakami-Murofushi, K. (1258) 57)

DNA sequence
ATPase, Na^+-; Acetogenic bacterium; (*A. woodii*) (Forster, A. (1229) 393)

ATPase, F_1-, inhibitor; Pseudogene; (Rat) (Samuel, D.S. (1230) 81)

ATPase, P-type; Major intrinsic protein (MIP); Protein; Cyanobacterium; (*Synechococcus*) (Kashiwagi, S. (1237) 189)

Single-stranded DNA plasmid; Origin mutant; Deletion; Complementary strand (Kodaira, K.-I. (1260) 183)

Single-stranded DNA phage; Origin mutant; Deletion/insertion; Complementary strand (Kodaira, K.-I. (1260) 191)

Mutant allele; *transformer* locus; Nonsense mutation; (*D. melanogaster*) (Yuan, X. (1260) 369)

Molecular cloning; Ribosomal protein L11; Predicted amino acid sequence; (*Drosophila*) (Larochelle, S. (1261) 147)

Gene expression; Ribosomal protein; mRNA; (Human) (Frigerio, J.-M. (1262) 64)

Galactitol; PTS; *gat* operon; (*E. coli*); (Strain EC3132) (Nobelmann, B. (1262) 69)

Ribosomal protein S20; Protein sequence; Sequence comparison (Nemec, A. (1263) 154)

Genetic variant; Missense mutation; Human factor *X*; Immunosorbent; Western blotting; Amino acid sequence (Kim, D.J. (1271) 327)

DNA structure, non-B
Topoisomerase II; Z-DNA; Alternating purine-pyrimidine repeat; Etoposide (Choi, I.Y. (1264) 209)

DNA synthesis
Protein kinase C; Hydrogen peroxide; Smooth muscle cell (Fiorani, M. (1269) 98)

DNA topoisomerase
Cancer chemotherapy; Camptothecin; Recombination (Gupta, M. (1262) 1)

Non-small cell lung cancer; Gene expression; Chemotherapy; Proliferation (Giaccone, G. (1264) 337)

DNA topoisomerase I
Bacterium; Thermotoga; Thermophile; (*T. maritima*) (Bouthier de la Tour, C. (1264) 279)

cDNA
Gene expression; Recombinant protein; Transcription; Translation; Localization; Polymorphism; Atomic structure (Lundström, K. (1251) 1)

Bile acid-binding protein; Ileum; Chromosome 5; (Human) (Oelkers, P. (1257) 199)

Mitochondrion; Steroidogenic acute regulatory protein; Sequence analysis; (Human) (Gradi, A. (1258) 228)

Cholesteryl ester hydrolase; Carboxylesterase; Cloning (Ghosh, S. (1259) 305)

Tyrosine aminotransferase; Cloning; (Human liver) (Séralini, G.-E. (1260) 97)

Ribosomal protein L22; Human EAP; (Rat) (Chan, Y.-L. (1260) 113)

Molecular cloning; Argininosuccinate lyase; Arginase; Metamorphosis; (*R. catesbeiana*) (Iwase, K. (1260) 139)

Evolution; Intron; Protein synthesis (Bäuerle, A. (1260) 223)

Sepiapterin reductase; Tetrahydrobiopterin; Cloning; (Mouse) (Ota, A. (1260) 320)

Translational regulation; Initiation factor-2; Glycoprotein; (Human) (Li, X. (1260) 333)

Protein kinase CK2 α subunit; Processed pseudogene; (Mouse) (Hoffmann, U. (1260) 337)

Lysyl oxidase; Polymerase chain reaction; (Rat) (Trackman, P.C. (1260) 355)

Adrenodoxin; Adrenal; Mitochondrion; Steroidogenesis; (Mouse) (Stromstedt, M. (1261) 126)

Folate-dependent trifunctional enzyme; (*S. frugiperda*) (Tremblay, G.B. (1261) 129)

GABA/benzodiazepine receptor; γ-Aminobutyric acid; Epilepsy; Alcohol; RFLP; Gene mapping; (Mouse) (Kamatchi, G.L. (1261) 134)

Genomic organization; Gene expression; Wheat histone H2A; Histone primary structure (Huh, G.H. (1261) 155)

Transcription factor; oct-1; (Murine) (Jaffe, J. (1261) 201)

Polyubiquitin gene; Deduced amino acid sequence; (Marine red alga); (*G. verrucosa*) (Zhou, Y.-H. (1261) 215)

C4b-binding protein; Sequence comparison; (Rabbit) (García de Frutos, P. (1261) 285)

Calpain; Calpain large subunit; (Chicken) (Sorimachi, H. (1261) 381)

Cysteine sulfinic acid decarboxylase; Taurine (Kaisakia, P.J. (1262) 79)

Ornithine decarboxylase antizyme; Frameshift; (*X. laevis*) (Ichiba, T. (1262) 83)

DnaJ; Sis1; Heat shock; (*S. pombe*) (Park, S.-K. (1262) 87)

Cysteine proteinase; (Corn seed) (Domoto, C. (1263) 241)

Aging; Calcium binding protein; Senescence marker protein-30 (SMP30); X chromosome; (Human); (Liver) (Fujita, T. (1263) 249)

Myc gene family; Pituitary gland; (Rainbow trout) (Panno, J.P. (1264) 7)

Type-I hair keratin; Full length cDNA; Keratin; (Human) (Fink, P. (1264) 12)

Antimicrobial peptide; Molecular cloning; Peptide precursor; (Frog skin) (Park, J.M. (1264) 23)

Lysyl hydroxylase; Molecular cloning; mRNA distribution; Baculovirus vector; (Rat) (Armstrong, L.C. (1264) 93)

Topoisomerase II β; 9-OH-Ellipticine; (Chinese hamster lung cell) (Dereuddre, S. (1264) 178)

Carnitine octanoyltransferase; Promoter; Peroxisome; Peroxisome proliferator activated receptor (Choi, S.J. (1264) 215)

Creatine biosynthesis; Guanidinoacetate methyltransferase; Deficiency; (Human) (Isbrandt, D. (1264) 265)

Mitochondrion; Cytochrome-*c* reductase; Iron-sulfur protein; Targeting presequence; (*C. fasciculata*); (*T. brucei*) (Priest, J.W. (1269) 201)

Caprine; *N*-Acetylglucosamine-6-sulfatase; Mucopolysaccharidosis IIID; Comparative genomics; Trinucleotide repeat; (Human) (Friderici, K. (1271) 364)

cDNA clone
Genomic clone; RNA end; (Human) (Selvamurugan, N. (1260) 230)

cDNA cloning
Vascular smooth muscle; Superoxide anion; NADPH oxidase; Cytochrome *b*-558 (Fukui, T. (1231) 215)

Swelling-induced chloride current; Chloride current; (Rabbit heart) (Okada, H. (1234) 145)

Proton/peptide cotransport; Functional expression; β-Lactam antibiotic; (Human kidney) (Liu, W. (1235) 461)

Sialyltransferase; (Chick embryo) (Kurosawa, N. (1244) 216)

Milk fat globule membrane; Mammary epithelial cell; Glycoprotein antigen; (Bovine milk) (Aoki, N. (1245) 385)

Thioether; Methyltransferase; *S*-Adenosylmethionine; Sulfur; Selenium; (Mouse lung) (Warner, D.R. (1246) 160)

Brain-specific protein; (Bovine) (Shiratsuchi, A. (1251) 66)

LOX; Plant lipoxygenase; Barley; Inverse PCR cloning; (*Hordeum vulgare* L.) (Van Mechelen, J.R. (1254) 221)

Squalene synthase; Cholesterol biosynthesis; Recombinant enzyme; (Mouse liver) (Inoue, T. (1260) 49)

Zinc-finger structure; Transcription regulation; PCR; (*Xenopus*); (Human) (Hla, T. (1260) 227)

Lectin; Von Willebrand factor; Gene expression; Baculovirus vector; (Silkworm) (Kotani, E. (1260) 245)

Squalene epoxidase; Cholesterol biosynthesis; FAD-binding motif; (Mouse liver) (Kosuga, K. (1260) 345)

Thyroid-specific enhancer-binding protein (T/EBP); Gene cloning; Gene structure; Sequence comparison (Oguchi, H. (1261) 304)

Pancreatic type ribonuclease family; RNAase 4; Gene expression; (Pancreas); (Human) (Seno, M. (1261) 424)

Subtractive hybridization; Natural killer cell; Proline-rich protein (Chen, J. (1264) 19)

CYP24; Cytochrome *P*-450; 1α,25-Dihydroxyvitamin D-3; Vitamin D-3 (Itoh, S. (1264) 26)

Multicatalytic proteinase complex; Proteasome; Subunit RC6-I (Ni, R. (1264) 45)

c-*met*; HGF/SF; Tyrosine-kinase receptor; Oncogenic activation; Rearrangement; cDNA sequencing (Wicker, R. (1264) 254)

Eosinophil; Major basic protein; RACE; PCR; (Rat) (Nittoh, T. (1264) 261)

Elongation factor 1; Protein kinase; Phosphorylation; Casein kinase (Chen, C.-J. (1264) 303)

Thromboxane A_2 receptor; Glial cell; Astrocyte; (Rat) (Kitanaka, J.-i. (1265) 220)

cDNA expression
1,2-α-D-Mannosidase; α-Mannosidase; cDNA sequence; (*Aspergillus*) (Inoue, T. (1253) 141)

cDNA library
Northern analysis; Nucleotide sequence; Polymerase chain reaction; Signal peptide (Ma, D.-P. (1257) 81)

cDNA sequence
Ubiquinol–cytochrome-*c* oxidoreductase; Subunit VIII; (*Schizosaccharomyces pombe*) (Boumans, H. (1229) 386)

5-HT_{2A} receptor; (Pig); (Rhesus monkey) (Johnson, M.P. (1236) 201)

Molecular cloning; Glutamate transporter; (Mouse brain) (Mukainaka, Y. (1244) 233)

Chlorocruorin; Hemoglobin; Primary structure; (*Sabellastarte indica*) (Suzuki, T. (1252) 189)

1,2-α-D-Mannosidase; α-Mannosidase; cDNA expression; (*Aspergillus*) (Inoue, T. (1253) 141)

Guanylin; Guanylate cyclase C; GCAP-II; (Human colon) (Hill, O. (1253) 146)

Phosphatidylinositol transfer protein; Tissue distribution; Isoform; (Human) (Tanaka, S. (1259) 199)

N-Methyl-D-aspartate receptor; NMDA receptor; NR3; Amino acid sequence; (Human) (Adams, S.-L. (1260) 105)

Gene; Genomic DNA; Protyrosinase; Tyrosinase; (*Aspergillus oryzae*) (Fujita, Y. (1261) 151)

Thymidylate synthase; Amino acid sequence; Cloning; High level expression; (Rat) (Cieśla, J. (1261) 233)

Protein kinase; Gene expression; (*X. laevis*) (Mukai, H. (1261) 296)

Cysteine endopeptidase; Developing seed; Polymerase chain reaction; (*Glycine max.*) (Nong, V.H. (1261) 435)

Meiosis; Synaptonemal complex; (Mouse) (Sage, J. (1263) 258)

P19 cell; Differentiation; Pyruvate kinase (Izumi, S. (1267) 135)

cDNA sequencing
c-*met*; HGF/SF; Tyrosine-kinase receptor; Oncogenic activation; Rearrangement; cDNA cloning (Wicker, R. (1264) 254)

cDNA transcript
Fetus; Bile salt-dependent lipase; (Human pancreas) (Roudani, S. (1264) 141)

curved DNA
HU; Integration host factor; DNA bending (Shimizu, M. (1264) 330)

genomic DNA
Transcript regulation; Chitinase; Vacuolar protein; Wound-induced (Hamel, F. (1263) 212)

mtDNA
Mitochondrial medicine; Luft's disease; Aging (Luft, R. (1271) 1)

Mitochondrion; Calmitine (Lestienne, P. (1271) 159)

Point mutation; Oxygen free radical damage; Deletion; Aging; Degenerative disease; Apoptosis (Ozawa, T. (1271) 177)

Aging; Common deletion; Electron transport chain; GFAP; Glial fibrillary acidic protein; Mitochondrion (Chen, X. (1271) 229)

Mitochondrion; tRNA; Myoclonus epilepsy; Mitochondrial encephalomyopathy; Leigh's syndrome (Holme, E. (1271) 249)

Mitochondrial encephalomyopathy; NARP mutation; Heteroplasmy; ATP synthase; F_o-subunit (Houštěk, J. (1271) 349)

mtDNA deletion
Mitochondrial DNA; Mitochondrial myopathy; mtDNA depletion; mtDNA replication (Zeviani, M. (1271) 153)

mtDNA depletion
Mitochondrial DNA; Mitochondrial myopathy; mtDNA deletion; mtDNA replication (Zeviani, M. (1271) 153)

mtDNA disease
MELAS phenotype; Mitochondrion (Morgan-Hughes, J.A. (1271) 135)

mtDNA mutation
Oxidative phosphorylation; Mitochondrion (Wallace, D.C. (1271) 141)

Mitochondrion; Cellular model system (Attardi, G. (1271) 241)

Mitochondrion; Leber's hereditary optic neuroretinopathy, LHON (Savontaus, M.-L. (1271) 261)

mtDNA replication
Mitochondrial DNA; Mitochondrial myopathy; mtDNA deletion; mtDNA depletion (Zeviani, M. (1271) 153)

rDNA
Targeted mutagenesis; 5.8S rRNA; Internal transcribed spacer (Abou Elela, S. (1262) 164)

recombinant DNA
CCAAT element; Histone gene; Promoter activity; Transient CAT assay (Takami, Y. (1264) 29)

Z-DNA
Topoisomerase II; DNA structure, non-B; Alternating purine-pyrimidine repeat; Etoposide (Choi, I.Y. (1264) 209)

Docosahexaenoic acid
($n-3$) Fatty acid; Thy-1; CD8 (Jenski, L.J. (1236) 39)

Cholesterol; Di-docosahexaenoylphosphatidylcholine (Zerouga, M. (1236) 266)

Arachidonic acid; Norepinephrine stimulation; (Rat pineal gland) (Delton, I. (1254) 147)

Icosapentaenoic acid; Docosapentaenoic acid; Interconversion; Endothelium; Lipid (Achard, F. (1255) 260)

Fetal alcohol syndrome; Phospholipid; Brain; (Guinea-pig) (Burdge, G.C. (1256) 346)

Yolk; Adipose tissue; Brain; (Chick embryo) (Maldjian, A. (1258) 81)

Icosapentaenoic acid; Absorption; Lymph; (Rat) (Ikeda, I. (1259) 297)

Docosapentaenoic acid
Icosapentaenoic acid; Docosahexaenoic acid; Interconversion; Endothelium; Lipid (Achard, F. (1255) 260)

Dodecylphosphocholine micelle
NMR, ^{13}C-; NMR, ^{35}Cl-; Transverse relaxation time; Calcium chloride titration; Circular dichroism (Jing, N. (1238) 12)

Dodecylphosphocholine micelle
Gramicidin A, C-13 labeled; Ionic titration; Circular dichroism (Jing, N. (1238) 1)

Domain
Rhodanese; Tether; Site-directed mutation; Protein folding (Luo, G.-X. (1252) 165)

Domain folding
Protein domain; Domain stability; DSC; Analytical ultracentrifuge (Azuaga, A.I. (1252) 95)

Domain formation
Phospholipase A_2; Fluorescence microscopy; Surface potential; Monolayer; Air/water interface; Asymmetric lipid; Fatty acid (Maloney, K.M. (1235) 395)

Domain size
Light harvesting; Energy transfer; Fluorescence; Reaction center; (*Rb. sphaeroides*) (Kramer, H. (1231) 89)

Domain stability
Protein domain; Domain folding; DSC; Analytical ultracentrifuge (Azuaga, A.I. (1252) 95)

Dopachrome tautomerase
Tyrosinase; Melanosome; Detergent; Lipid; Melanization; Membrane protein (Jiménez-Cervantes, C. (1243) 421)

Melanin synthesis; Pigmentation; Tyrosinase; Tyrosinase-related protein 1 (Winder, A.J. (1268) 300)

Dopamine
Iron; Peroxide; Cysteine; 5-*S*-Cysteinyldopamine; Parkinson's disease (Palumbo, A. (1245) 255)

Thymocyte; Programmed cell death; Apoptosis; Flow cytometry; X-ray microanalysis (Offen, D. (1268) 171)

Dopamine receptor
Metallothionein promoter; GH4C1 cells; Gene regulation; Recombination (Allard, S. (1260) 43)

Dorsal
Morphogen gradient; Bicoid; Embryogenesis; Transcription factor; (*Drosophila*) (Courey, A.J. (1261) 1)

DOTMA
Transfection; COS-7; Carrier; Synthetic amphiphile (Van der Woude, I. (1240) 34)

Double mutant
Cytochrome *c*; Amino acid substitution, His-26 to Val; Amino acid substitution, His-33 to Phe; Local stability; Global stability (Qin, W. (1252) 87)

Resonance Raman spectroscopy; Ligation; Myoglobin; (Porcine) (Anderton, C.L. (1253) 1)

Down regulation
Calpain; Autoproteolysis; Cell membrane (Inomata, M. (1235) 107)

CFTR expression; Cystic fibrosis; antisense mRNA; (HT29-derived cell line) (Wardle, C.J.C. (1261) 417)

c-*myc*; MCF-7; Topoisomerase II inhibitor VM-26; DMSO (Orr, M.S. (1262) 139)

Doxorubicin
PEG-coated liposome; Tumor cell targeting; Folate-binding protein; Liposome targeting (Lee, R.J. (1233) 134)

Nanoparticle; Polysaccharide; Drug carrier; Phospholipid; Gentamicin (De Miguel, I. (1237) 49)

Sterically stabilized liposome; Poly(ethylene glycol); Liposome targeting; Immunoliposome; Selective toxicity; Toxicity (Allen, T.M. (1237) 99)

Anionic phospholipid; Drug–membrane interaction; Multidrug resistance; Passive diffusion; P-glycoprotein; Verapamil (Speelmans, G. (1238) 137)

Doxorubicin gel
Vesicle; Gradient loading; Microreactor; Phase transition; Drug encapsulation; Stability; Intraliposomal precipitation (Lasic, D.D. (1239) 145)

DPPC
Gastric mucosa; Gastric mucus; Gastric surfactant; Phospholipid; Phosphatidylcholine species (Bernhard, W. (1255) 99)

D1 protein
Photoinhibition; CP43; Reaction center; Photosystem II; Chloroplast (Mori, H. (1228) 37)

Photosystem II; Photoinhibition; FTIR; Thermoluminescence; Plastoquinone (Ono, T.-a. (1229) 239)

Bicarbonate effect; D_1 mutant; Amino acid interaction; Photosystem II; (*Synechocystis* 6714) (Vernotte, C. (1229) 296)

Photosystem II; Herbicide; Protein degradation; Photoinhibition (Nakajima, Y. (1230) 38)

D1 protein degradation
Ultraviolet B; Protein degradation; Photosystem II; Reaction center (Friso, G. (1231) 41)

Drug carrier
Nanoparticle; Polysaccharide; Phospholipid; Gentamicin; Doxorubicin (De Miguel, I. (1237) 49)

Drug delivery
Renal cyst; P-glycoprotein; Glycoprotein; Vinblastine; Verapamil; MDCK (Simmons, N.L. (1237) 31)

Liposome; Permeability; Cancer; Stearylamine; Multidrug resistance (Webb, M.S. (1238) 147)

Liposome; Oxidation; Polycarbonate membrane (Chow, C.-Y. (1239) 168)

Liposome; Liposome clearance; Liver perfusion; Kupffer cell (Liu, D. (1240) 277)

Oligonucleotide conjugate; Protozoan parasite; Macrophage; (*Leishmania amazonensis*) (Mishra, R.K. (1264) 229)

Drug delivery system
Liposome; Immunoliposome; Antibody; Poly(ethylene glycol) (Maruyama, K. (1234) 74)

Sterically stabilized liposome; Antibody conjugation; Poly(ethylene glycol); Targeted drug delivery (Hansen, C.B. (1239) 133)

Drug encapsulation
Vesicle; Gradient loading; Microreactor; Phase transition; Stability; Intraliposomal precipitation; Doxorubicin gel (Lasic, D.D. (1239) 145)

Drug localization
Vasodilator; Dipyridamole; Fluorescence quenching; Micelle (Borissevitch, I.E. (1238) 57)

Drug–membrane interaction
Small angle X-ray diffraction; DSC; Cannabinoid; (−)-*O*-Methyl-Δ^8-tetrahydrocannabinol; 5′-Iodo-*O*-methyl-Δ^8-tetrahydrocannabinol (Mavromoustakos, T. (1237) 183)

Anionic phospholipid; Doxorubicin; Multidrug resistance; Passive diffusion; P-glycoprotein; Verapamil (Speelmans, G. (1238) 137)

DSC; Solid state ^{2}H-NMR; NMR, solid state ^{2}H-; Steroid; Alphaxalone; Δ^{16}-Alphaxalone (Mavromoustakos, T. (1239) 257)

Drug targeting
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Drug transport
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DSC
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Cholesterol; Dipalmitoylphosphatidylcholine; Bilayer (McMullen, T.P.W. (1234) 90)

Capsaicin; Model membrane; NMR, ^{31}P-; Lipid polymorphism (Aranda, F.J. (1234) 225)

Protein-lipid association; Liposome; Erythrocyte sugar transport protein; Enzyme reconstitution; Lipid bilayer; Membrane protein; (Human) (Naderi, S. (1236) 10)

Phospholipid bilayer; Interdigitation; Molecular geometry; Alcohol; Electron microscopy (Mason, J.T. (1236) 65)

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Small angle X-ray diffraction; Drug–membrane interaction; Cannabinoid; (−)-*O*-Methyl-Δ^8-tetrahydrocannabinol; 5′-Iodo-*O*-methyl-Δ^8-tetrahydrocannabinol (Mavromoustakos, T. (1237) 183)

Solid state ^{2}H-NMR; NMR, solid state ^{2}H-; Drug–membrane interaction; Steroid; Alphaxalone; Δ^{16}-Alphaxalone (Mavromoustakos, T. (1239) 257)

Lipid bilayer; Phospholipid; Phase transition; Sub-main transition (Jørgensen, K. (1240) 111)

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Cerebroside; X-ray diffraction; Bilayer; Membrane (Haas, N.S. (1240) 133)

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Bromelain; Cysteine proteinase; Thermal denaturation; Circular dichroism (Arroyo-Reyna, A. (1248) 123)

Protein domain; Domain folding; Domain stability; Analytical ultracentrifuge (Azuaga, A.I. (1252) 95)

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Dynamic resistance
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E

Early gene response
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Interleukin-1β; cyclic AMP response element-binding protein; bZIP transcription factor; Phosphorylation (Chen, W.-J. (1264) 388)

EGF-like superfamily
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Ehrlich ascites tumor
Creatine depletion; Cell growth (Ohira, Y. (1243) 367)

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Cyclooxygenase; Monoclonal antibody; Acetylcholinesterase; HUVEC (Créminon, C. (1254) 341)

EIPA
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Elastase
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Human fibroblast, in vitro; Hypergravity; Extracellular matrix; Fibronectin; Collagen; Collagenase; Elastase (Gaubin, Y. (1245) 173)

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Macromolecule transfer; Electroloading; Cell wall; (Yeast) (Ganeva, V. (1240) 229)

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Electrochemical potential, transbilayer
Polypeptide; Import mechanism; Mitochondrial inner membrane (McBride, H.M. (1237) 162)

Electrochromism
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Electrogenic ion transport
Metabolic inhibition; Cyanide; Antimycin A; Azide; Turgor pressure regulation (Wang, J. (1233) 185)

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Electrohemolysis
Electropermeabilization; Erythrocyte membrane; Shape; Size distribution; Hemolysis; (Human) (Turcu, I. (1238) 81)

Electroloading
Macromolecule transfer; Electric field mediation; Cell wall; (Yeast) (Ganeva, V. (1240) 229)

Electron microscopy
Glycosphingolipid; Ganglioside; Liposome; Freeze-etch (Palestini, P. (1235) 221)

Liposome-DNA complex; Cationic liposome; DNA; Cryo-transmission electron microscopy (Gustafsson, J. (1235) 305)

Phospholipid bilayer; Interdigitation; Molecular geometry; Alcohol; DSC (Mason, J.T. (1236) 65)

Similaun man; Mummification; Raman spectroscopy; Human skin (Williams, A.C. (1246) 98)

Electron paramagnetic resonance
Oxygen; Cultured cell; Fusinite; Light microscopy (Santini, M.T. (1243) 110)

Azurin; Disulfide bond; Site-directed mutagenesis; Fluorescence; Circular dichroism; (*P. aeruginosa*) (Bonander, N. (1251) 48)

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Electron spin echo envelope modulation
Thiopropionyl cytochrome *c*; Thiol heme iron ligand; Optical spectrum; NMR; EPR, continuous wave (Theodorakis, J.L. (1252) 103)

Electron transfer
Flash photolysis; NMR; Photosynthesis; Photosystem I; Site-directed mutagenesis (Sigfridsson, K. (1228) 28)

Photosynthesis; Charge separation; Dielectric relaxation; Protein relaxation; Protein as a dielectric (Krishtalik, L.I. (1228) 58)

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Bacterial photosynthesis; Photosynthesis; Cytochrome, *c*-type; (*Rf. fermentans*) (Hochkoeppler, A. (1229) 81)

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Electron transfer chain
Mitochondrial protein; Nuclear gene; Mitochondrial myopathy; Bioenergetics (Hegeman, A.D. (1261) 311)

Electron transfer process
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Electron transport
Mitochondrion; Cytochrome *c*; Lipid–protein interaction (Cortese, J.D. (1228) 216)

Bicarbonate depletion; Photoinhibition; Photosystem II; Thermoluminescence; (Green alga) (Demeter, S. (1229) 166)

Hydrogenase; Quinone; Methylene blue; (*B. japonicum*) (Ferber, D.M. (1229) 334)

Cytochrome *c*; Nitrogen fixation; Respiratory protection; (*A. vinelandii*) (Ng, T.C.N. (1230) 119)

Photosystem II; Calcium; Quinone; Tyrosine; Oxygen evolution (Andréasson, L.-E. (1230) 155)

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Aging; Common deletion; GFAP; Glial fibrillary acidic protein; Mitochondrion; mtDNA (Chen, X. (1271) 229)

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Electrophoresis
Lipid monolayer; Polymer; Membrane; Photobleaching; FRAP; Diffusion (Dietrich, C. (1238) 183)

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Purple membrane; Anesthetic; Electric light scattering (Taneva, S.G. (1236) 331)

Electrophysiology
Permeability transition; Mitochondrion; Swelling; Channel; Calcium (Zoratti, M. (1241) 139)

Electroporation
Molecular transport; Subpopulation; Heterogeneity; Flow cytometry; (Yeast) (Gift, E.A. (1234) 52)

Iontophoresis; Stratum corneum; Passive electrical properties; Impedance; Dynamic resistance; (Human skin) (Pliquett, U. (1239) 111)

Lipoxygenase; Antisense RNA; Protoplast; RNA; (Lentil); (*Lens culinaris*) (Maccarrone, M. (1259) 1)

DNA break; Mammalian cell; Electric charge; Current duration (Meaking, W.S. (1264) 357)

Electrorotation
Dielectrophoresis; Travelling-wave dielectrophoresis; Dipole moment (Wang, X.-B. (1243) 185)

Biofilm; Conductivity; Dielectric property; Viability; Biocide (Zhou, X.-F. (1245) 85)

Electrospray mass spectrometry
Acyl carrier protein; Polyketide synthase; 4′-Phosphopantetheine; Malonyl transferase; (*Streptomyces*) (Crosby, J. (1251) 32)

Electrostatic interaction
Electron transfer; Respiratory chain; Steady-state kinetics; (*P. denitrificans*) (Witt, H. (1230) 74)

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Ion channel; Nicotinic acetylcholine receptor; Transmembrane helix; Molecular dynamics (Sankararamakrishnan, R. (1239) 122)

Elicited peritoneal macrophage
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Elicitor
Hydroperoxyoctadecatrienoic acid; 2-Penten-1-ol; 13-Oxotrideca-9,11-dienoic acid; Hydroperoxide lyase; Defense mechanism; (Soybean) (Kondo, Y. (1255) 9)

9-OH-Ellipticine
cDNA; Topoisomerase II β; (Chinese hamster lung cell) (Dereuddre, S. (1264) 178)

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D-Lactate dehydrogenase; Sulfhydryl; n-Octyl-5-dithio-2-nitrobenzoic acid; (*E. coli*) (Dowd, S.R. (1252) 278)

Elongation
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Elongation factor
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Elongation factor 1
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Elongation factor 2
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CaM PKIII; Differentiation; Phosphorylation; Proliferation (Nilsson, A. (1268) 263)

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Fragment; Proteolysis (Dumont-Miscopein, A. (1263) 221)

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Histone; Basic protein; Amino acid sequence; (*Tick*); (*Hyalomma dromedarii*) (Ibrahim, M.A. (1249) 79)

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Morphogen gradient; Dorsal; Bicoid; Transcription factor; (*Drosophila*) (Courey, A.J. (1261) 1)

Glutamate binding protein homologue; NMDARA1 homologue; (*Drosophila*) (Pellicena-Pallé, A. (1261) 301)

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Embryonic diapause
Diapause hormone and pheromone biosynthesis activating neuropeptide gene; Gene cloning; Gene sequencing; Neuropeptide; (*B. mori*) (Xu, W.-H. (1261) 83)

Embryonic expression
Chaperonin; *t*-complex protein 1 (TCP-1); Axolotl; Embryogenesis (Sun, H.B. (1260) 157)

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Embryonic stem cell
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Embryotoxicity
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Endoplasmic reticulum
ATPase, $(Ca^{2+} + Mg^{2+})$-; Photoaffinity labeling; 8-azido-ATP; (Pancreas) (Webb, R. (1233) 1)

Cytochrome *P*-450; Membrane proliferation; Immunocytochemistry; (*C. maltosa*) (Ohkuma, M. (1236) 163)

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Golgi system; Subfractionation; Ubiquinone biosynthesis (Teclebrhan, H. (1256) 157)

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Neutrophil; Xanthine oxidase; Elastase; Adhesion molecule (Wakabayashi, Y. (1265) 103)

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Fucoidan; Endotoxin; Plasminogen activator inhibitor-1; (Human umbilical vein) (Soeda, S. (1269) 85)

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Modulation; Nitric oxide; Nitrovasodilator drug; Prostacyclin; Tolerance (Matthews, J.S. (1269) 237)

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Endotoxic shock
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Endotoxin
Fucoidan; Plasminogen activator inhibitor-1; Endothelial cell; (Human umbilical vein) (Soeda, S. (1269) 85)

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Energy metabolism
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Energy production, unexplained
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Energy transduction
Transhydrogenase; Proton translocation; Nicotinamide nucleotide; (Bacterial membrane); (*E. coli*) (Bizouarn, T. (1229) 49)

Membrane protein; Reconstitution; Liposome; Proteoliposome (Rigaud, J.-L. (1231) 223)

Energy transfer
Photosystem I; Light-harvesting complex I; Femtosecond spectroscopy; Fluorescence spectroscopy; Anisotropy; F690; F735 (Pålsson, L.-O. (1230) 1)

Picosecond transient absorption; Trapping; Photosystem II; Core complex; Long-wavelength pigment (Schelvis, J.P.M. (1230) 165)

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Enhancer
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Enolase mechanism
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Chemiluminescence; Glycation; Hydrogen peroxide; Maillard reaction; Pyrone hydroperoxide (Lertsiri, S. (1245) 278)

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Enoyl-CoA isomerase; Fatty acid degradation; Glyoxysome; 3-Hydroxyacyl-CoA epimerase; 3-Hydroxyacyl-CoA dehydrogenase (Gühnemann-Schäfer, K. (1256) 181)

Enoyl-CoA isomerase
Enoyl-CoA hydratase; Fatty acid degradation; Glyoxysome; 3-Hydroxyacyl-CoA epimerase; 3-Hydroxyacyl-CoA dehydrogenase (Gühnemann-Schäfer, K. (1256) 181)

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Enterocyte differentiation
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Enterotoxin
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Enzymatic cleavage
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Enzymatic peptide synthesis
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14,15-Epoxyicosatrienoic acid
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Acetylcholinesterase, asymmetric; Heparin domain; Protamine; Neuromuscular junction (Deprez, P.N. (1252) 53)

Extracellular matrix protein
$CD14^+/CD16^+$ monocyte; CD56 surface marker; LAK dependent cytotoxicity; TNFα; Interleukin release; (Human) (López-Moratalla, N. (1265) 181)

Extracellular signal-regulated kinase (erk)
Okadaic acid; Signal transduction; Tetradecanoylphorbol acetate; Heat shock; HeLa cell (Heider, H. (1265) 196)

***Extramacrochaetae* gene**
Pooled genomic denaturing gradient electrophoresis; *Suppressor-of-hairless* gene; (*D. melanogaster*) (Mickey, G. (1260) 123)

Extrinsic protein
Oxygen evolution; Photosystem II; Cytochrome *c*-550; Protein, 12 kDa; (Red algae) (Enami, I. (1232) 208)

Eye
Crystallin; In vivo footprinting; Transgenic mouse; Gene regulation; Lens (Duncan, M.K. (1261) 68)

Eye melanocyte
Melanin; Melanogenesis extracutaneous; B16 mouse melanoma melanocyte; Tyrosinase; Tyrosinase-related protein (Benedito, E. (1252) 217)

F

F690
Photosystem I; Light-harvesting complex I; Femtosecond spectroscopy; Fluorescence spectroscopy; Anisotropy; F735; Energy transfer (Pålsson, L.-O. (1230) 1)

F735
Photosystem I; Light-harvesting complex I; Femtosecond spectroscopy; Fluorescence spectroscopy; Anisotropy; F690; Energy transfer (Pålsson, L.-O. (1230) 1)

L-FABP expression
Pregnancy; Lactation; Liver (Besnard, P. (1258) 153)

F-acid
Furan fatty acid; Furan ring methylation; Cell suspension culture; (*Saccharum* spec.) (Scheinkönig, J. (1254) 73)

Facilitated diffusion
myo-Inositol; Osmolyte; Kidney; Phlorizin; Phloretin; Glucose; (Proximal tubule); ($LLC\text{-}PK_1$ cell) (Russo, L.M. (1236) 15)

Glucose transport; Radioactive tracer analysis; Inhibitor; (*H. pylori*) (Mendz, G.L. (1244) 269)

Exonuclease; Endonuclease; Processivity (Lu, T. (1251) 125)

Facilitated transport
Transport; Mitochondrion; Aspartate/glutamate carrier; Reconstitution; Energetics; Kinetics; Uncoupled transport (Herick, K. (1238) 63)

Factorial design
Crystallization; Protein (Sedzik, J. (1251) 177)

Factor IX
NMR; CD; Blood clotting protein; Propeptide; Hemophilia B; Solution conformation (Cheng, J.-W. (1245) 227)

Factor Va
Protein S; Protein C; Factor Xa; Prothrombin; C4b-binding protein (Hayashi, T. (1272) 159)

Factor Xa
Protein S; Protein C; Factor Va; Prothrombin; C4b-binding protein (Hayashi, T. (1272) 159)

Facultative phototroph
Cytochrome *b*; Cytochrome *c*; Respiratory chain; Membrane-bound oxidase; (*Rf. fermentans*) (Hochkoeppler, A. (1229) 73)

FAD-binding motif
Squalene epoxidase; Cholesterol biosynthesis; cDNA cloning; (Mouse liver) (Kosuga, K. (1260) 345)

Familial hypercholesterolaemia
LDL receptor structure; LDL receptor mutation (Patel, D.D. (1255) 285)

Famotidine
Membrane potential; Voltage-clamp technique; Thiocyanate; Omeprazole; SCH 28080; (*R. pipiens*); (Gastric mucosa) (Carrasquer, G. (1240) 41)

Fasting
Linoleate; α-Linolenate; Polyunsaturate; Pregnancy; (Rat) (Cunnane, S.C. (1255) 113)

Fast protein-liquid chromatography
LDL; Charge; Oxidized LDL; Immunoaffinity chromatography (Chappey, B. (1259) 261)

Fat-free diet
Cholesterol synthesis; Bile acid synthesis; LDL transport; Plasma LDL-cholesterol concentration; Cholesterol homeostasis (Bertolotti, M. (1255) 293)

Fat globule membrane
Ganglioside, α-series; Ganglioside, a-series; Mammary gland; TLC-immunostaining (Momoeda, M. (1256) 151)

Fatty acid
Glycolipid; Phospholipid bilayer; Order parameter; NMR, ^2H- (Morrow, M.R. (1235) 239)

Plasma membrane fluidity; Steady-state fluorescence polarization; Sterol; Phospholipid; (*Bryonia dioica*) (Mathieu, C. (1235) 249)

Amphipathic fatty acid derivative; Membrane; Partition coefficient; NMR, ^2H-; Equilibrium dialysis; Fluorescence spectroscopy (Lurie, E. (1235) 256)

Phospholipase A_2; Domain formation; Fluorescence microscopy; Surface potential; Monolayer; Air/water interface; Asymmetric lipid (Maloney, K.M. (1235) 395)

Liposome; Chemical and physical stability; Lysophospholipid; Micelle; Chemical hydrolysis (Zuidam, N.J. (1240) 101)

Microbody; Biogenesis; Peroxisome (Van Roermund, C.W.T. (1245) 348)

LDL oxidation; Antioxidant; Phospholipase A_2; (Human) (Croft, K.D. (1254) 250)

Acyltransferase; Membrane protein; Phosphatidylethanolamine; Phospholipid metabolism; (*G. hirsutum*) (McAndrew, R.S. (1256) 310)

Gram-negative bacterium; Phospholipid; Plasmid; Growth temperature; (*Y. pseudotuberculosis*) (Krasikova, I.N. (1257) 118)

p-Aminobenzoic acid; Arachidonic acid; Beta-oxidation; Lymphoid cell; Jurcat cell (Barbieri, B. (1257) 157)

Cholesterol; LDL receptor; Binding; (Hamster) (Sessions, V.A. (1258) 61)

Sphingomyelin; Mass spectrometry; Sphingoid base; Ceramide (Katsikas, H. (1258) 95)

Oleic acid; Age; Adipose tissue; Sex difference; (Rat) (Thorling, E.B. (1258) 195)

Chylomicron; Chylomicron remnant; Triacylglycerol; Dietary fat; (Rat liver) (Bravo, E. (1258) 328)

Mitochondrion; Fatty acid oxidation; Inborn error (Ventura, F.V. (1272) 14)

(*n* − 3) Fatty acid
Docosahexaenoic acid; Thy-1; CD8 (Jenski, L.J. (1236) 39)

Fatty acid-amide
Anandamide; Cannabinoid; Icosanoid; Lipoxygenase; Cerebral lipid; (Brain) (Hampson, A.J. (1259) 173)

Fatty acid composition
Hypothyroid state; Mitochondrion; Pyruvate oxidation; (Heart) (Pehowich, D.J. (1235) 231)

Lymphocyte; Membrane fluidity; Dietary lipid; Fish oil (Yaqoob, P. (1255) 333)

Fatty acid degradation
Enoyl-CoA hydratase; Enoyl-CoA isomerase; Glyoxysome; 3-Hydroxyacyl-CoA epimerase; 3-Hydroxyacyl-CoA dehydrogenase (Gühnemann-Schäfer, K. (1256) 181)

Fatty acid oxidation
Carnitine palmitoyltransferase; Malonyl-CoA; Enzyme inhibition; Temperature effect; Mitochondrion; Liver (Kashfi, K. (1257) 133)

Fatty acid; Mitochondrion; Inborn error (Ventura, F.V. (1272) 14)

Fatty acid selectivity
Lipase; Purification; (*V. galamensis*) (Ncube, I. (1257) 149)

Fatty acid uptake
Expression cloning; (*Xenopus laevis* oocyte) (Fitscher, B.A. (1256) 47)

Fatty acyl-CoA oxidase
Arachidonic acid; 20-Hydroxyarachidonic acid; Retinoic acid; Peroxisome proliferation; Catalase; Synergistic effect; Retinoid X receptor; (Morris Hepatoma 7800C1 cell) (Sohlenius, A.-K. (1258) 257)

Fatty streak
Atherosclerosis; Lesion, intermediate and advanced; Normal artery; Oxysterol; Hydroxyoctadecadienoic acid; (Human) (Carpenter, K.L.H. (1256) 141)

F9 cell
Adenovirus E1A; Cell differentiation; CR domain; c-jun (Li, H.-O. (1266) 148)

$Fc_\epsilon RI$ triggering
Tyrosine phosphorylation; Mast cell; B-cell tyrosine kinase (Price, D.J. (1265) 133)

5-FdUDP synthesis
NMR, ^{19}F- and ^{1}H-; Ribonucleoside-diphosphate reductase; Nucleotide binding; Protein conformational equilibrium (Roy, B. (1247) 284)

Femtosecond spectroscopy
Photosystem I; Light-harvesting complex I; Fluorescence spectroscopy; Anisotropy; F690; F735; Energy transfer (Pålsson, L.-O. (1230) 1)

Fenofibrate
Peroxisome proliferation; Hydrogen peroxide; Antioxidant enzyme (Arnaiz, S.L. (1272) 175)

Fenton reaction
Neuromelanin; Antioxidant; Free-radical scavenger; Iron-ion sequestration; EPR-spin trapping (Zaręba, M. (1271) 343)

Fermentable carbohydrate
Cholestyramine; Cholesterol; Triacylglycerol lipoprotein; Bile acid; Short chain fatty acid; (Rat) (Favier, M.-L. (1258) 115)

Ferredoxin
Ferredoxin:NADP reductase; Nitrate reductase; Nitrite reductase; Common binding site; (*Anabaena*) (Schmitz, S. (1231) 335)

Electron transport; Nitrogenase; Nitrogen fixation (Jouanneau, Y. (1232) 33)

EPR; Iron-sulfur center; Rieske center; Monooxygenase; Dioxygenase; (*P. putida*) (Rosche, B. (1252) 177)

Adrenodoxin; cAMP; Forskolin; Kidney (Itoh, S. (1263) 173)

Ferredoxin: $NADP^+$ oxidoreductase
Gene structure; Nucleotide sequence; (Rice root); (*Oryza sativa* L.) (Aoki, H. (1229) 389)

Ferredoxin:NADP oxidoreductase
Chloroplast; Grana margin; Light harvesting complex II; Photosystem; Partitioning; Aqueous polymer; (Spinach thylakoid) (Wollenberger, L. (1230) 10)

Ferredoxin:NADP reductase
Ferredoxin; Nitrate reductase; Nitrite reductase; Common binding site; (*Anabaena*) (Schmitz, S. (1231) 335)

Ferredoxin-plastoquinone reductase
Cyclic photophosphorylation; Cyclic electron transport; Photosystem I; Cyanobacterium (Bendall, D.S. (1229) 23)

Ferredoxin reductase
cyclic AMP; Amino acid sequence; Gene expression; Nucleotide sequence; (Mouse) (Itoh, S. (1264) 159)

Ferredoxin:thioredoxin reductase
Thioredoxin structure; Active-site disulfide (Salamon, Z. (1230) 114)

Ferrochelatase gene
Vectorette PCR; Coding sequence; PCR; (Bovine) (Shibuya, H. (1231) 117)

Erythropoietic protoporphyria; Splicing mutation; Exon skipping (Wang, X. (1271) 358)

Ferryl
Leghemoglobin; Hydrogen peroxide; Radical; EPR; Oxidative damage; Nitrogen fixation; Root nodule (Moreau, S. (1251) 17)

Ferrylhemoglobin
ATPase, Ca^{2+}-; Calcium ion transport; Oxidative stress; Iron; Ascorbate; Alamethicin; (Lung); (Microsome) (Menshikova, E.V. (1228) 165)

Fertility
Creatine kinase; Mitochondrion; Gene targeting; Embryonic stem cell; Energy metabolism (Steeghs, K. (1230) 130)

Ferulic acid
Esterase; Oligosaccharide; (*Pseudomonas*) (Faulds, C.B. (1243) 265)

***trans*-Ferulic acid**
Lignin biodegradation; *p*-Coumaric acid; Dioxygenase; (*Acinetobacter calcoaceticus*) (Delneri, D. (1244) 363)

Fetal alcohol syndrome
Phospholipid; Docosahexaenoic acid; Brain; (Guinea-pig) (Burdge, G.C. (1256) 346)

Fetal development
Pulmonary surfactant; Surfactant-associated protein; Glucocorticoid; Transcription; mRNA level; Respiratory distress syndrome (Xu, J. (1254) 302)

Fetal lung
Lung development; Alveolar type II cell; Glucocorticoid; Epidermal growth factor; Organ culture (Tangada, S.D. (1268) 191)

Fetus
cDNA transcript; Bile salt-dependent lipase; (Human pancreas) (Roudani, S. (1264) 141)

FGF receptor 3
Alternative splicing; Ligand specificity (Scotet, E. (1264) 238)

α-Fibrin(ogen)ase
Snake venom; Metalloprotease; Low molecular weight protease; Non-hemorrhagic protease; (*Agkistrodon halys brevicaudus*) (Fujimura, S. (1243) 94)

α-Fibrinogenase
Thrombin like enzyme; Snake venom proteinase; Platelet thrombin receptor GpIb (Basheer, A.R. (1250) 97)

Fibroblast
tert-Butyl hydroperoxide; Glutathione peroxidase; Glutathione *S*-transferase; Oxidative stress (Makino, N. (1243) 503)

Lung; Type II cell; Triacylglycerol; Surfactant (Torday, J. (1254) 198)

LDL; HDL; Cholesteryl ester; Selective uptake; HepG2 cell; J774 macrophage (Rinninger, F. (1255) 141)

Reverse cholesterol transport; Cholesterol efflux; HDL; LDL; HDL, preβ; Lipoprotein secretion; HepG2 cell; (Human) (Sviridov, D. (1256) 210)

27-Hydroxycholesterol; 25-Hydroxycholesterol; 7α-Hydroxylation; HMG-CoA reductase; (Human) (Zhang, J. (1256) 353)

D609; Phospholipase D; Phorbol ester (Kiss, Z. (1259) 105)

Kininogen; cyclic AMP; Prostaglandin E_2; Tumor necrosis factor; Inflammation; (Mouse) (Takano, M. (1265) 189)

Ornithine decarboxylase; Marker of proliferation; Transformed cell; *ras*-Oncogene (Shayovits, A. (1267) 107)

Collagen; Fibronectin; Degradation (Andersson, L.M.B. (1268) 27)

Kininogen; T-kininogen; cyclic AMP; Prostaglandin E_2; Cytokine (Takano, M. (1268) 107)

Atherosclerosis; Cell division; Growth; Platelet-derived growth factor; Lipoprotein; Arterial smooth muscle cell (Björkerud, S. (1268) 237)

Glutamine; Gene transcription; Collagen synthesis (Bellon, G. (1268) 311)

Impedance; Cell motility; Silicon membrane; Pore (Hagedorn, R. (1269) 221)

α-L-Fucosidase; Lysosomal storage disease; Isoform spectrum; Intracellular storage; (Human skin) (Beyer, E. (1270) 7)

Hutchinson-Gilford disease; Progeria; Aging; Glycosylation; Lectin (Clark, M.A. (1270) 142)

Cytochrome *c* oxidase; Enzyme kinetics; Mitochondrial disease; Encephalomyopathy; (Human) (Nijtmans, L.G.J. (1270) 193)

Fibroblast growth factor
Extracellular matrix; Glycosaminoglycans: Baculovirus (Congote, L.F. (1243) 538)

Myoblast; Immediate early gene; Gene expression; MAP kinase; Signal transduction (Lim, R.W. (1266) 91)

Heparin dependence (Imamura, T. (1266) 124)

Fibroblast growth factor, bFGF
Growth factor; PC12 cell; (*E. coli*) (Kroiher, M. (1250) 29)

Fibroblast growth factor receptor
Atherosclerosis; Basic fibroblast growth factor; Smooth muscle cell (Van Neck, J.W. (1261) 210)

Fibrocartilage
Dermatan sulfate; Proteoglycan; Temporomandibular joint disc (Scott, P.G. (1244) 121)

Fibronectin
Human fibroblast, in vitro; Hypergravity; Extracellular matrix; Collagen; Collagenase; Elastin; Elastase (Gaubin, Y. (1245) 173)

Protein, 550 kDa; Actin-binding protein; Glycoprotein; α-Actinin; Laminin (Hattori, A. (1245) 201)

Heat-shock protein; Heparin; Heparan sulfate (Hansen, L.K. (1252) 135)

Alternative splicing; Ageing (Caputi, M. (1263) 53)

Collagen; Degradation; Fibroblast (Andersson, L.M.B. (1268) 27)

Filamentous bacteriophage
Gene 5 protein; Single-stranded DNA binding protein; Tyrosine fluorescence; Site-directed mutagenesis (Turner, G.P. (1260) 79)

Filamentous fungus
Amine oxidase; Copper-containing; Flavin-containing; Monoamine oxidase (Schilling, B. (1243) 529)

Fine regulation
Thioredoxin; Reaction kinetics; Fructose 1,6-bisphosphatase; Protein complex formation; Enzyme activity (Häberlein, I. (1253) 169)

Fish
Aldolase; Sea bream; (*Sparus aurata*) (Llewellyn, L. (1263) 75)

Fish oil
Atherosclerosis; Leukotriene; HETE; Prostaglandin; Cholesterol (Surette, M.E. (1255) 185)

Lymphocyte; Fatty acid composition; Membrane fluidity; Dietary lipid (Yaqoob, P. (1255) 333)

FITC-dextran
Endocytosis; Liposome; Octadecyl rhodamine B; Lymphocyte; Jurkat cell; Poly(ethylene oxide)-lipid (Higashi, N. (1243) 386)

Flagellar motor
Chemotaxis; Motility; De-energization; Proton motive force; Arsenate (Welch, M. (1268) 81)

5′-Flanking region
Putative transcriptional factor binding site; Type II hexokinase gene; (Rat) (Ichihara, J. (1260) 365)

Flash photolysis
Electron transfer; NMR; Photosynthesis; Photosystem I; Site-directed mutagenesis (Sigfridsson, K. (1228) 28)

Flavin-containing
Amine oxidase; Copper-containing; Filamentous fungus; Monoamine oxidase (Schilling, B. (1243) 529)

Flavin microenvironment
Secondary structure; Circular dichroism; Cotton effect; Deletion mutant (Visser, A.J.W.G. (1229) 381)

Flavin reduction
Acetolactate; Ubiquinone reduction; NAD reduction; Acetohydroxy acid synthase; (*Methanococcus*) (Park, S.H. (1245) 366)

Flavocetin-A and -B
Glycoprotein Ib; Shear stress; Platelet aggregation; Von Willebrand factor; (Snake venom) (Taniuchi, Y. (1244) 331)

Flavocytochrome *b*-559
Respiratory burst; NADPH oxidase; Oxygen activation (Koshkin, V. (1232) 225)

Flavocytochrome b_2
Radical species; Michaelis–Menten kinetics; Enzyme inactivation; (*S. cerevisiae*) (Bhattacharya, D. (1250) 1)

Flavoenzyme
Oxidoreductase; Substrate-binding peptide; Chemical modification (Huang, D.-Y. (1243) 431)

Bacterial steroid monooxygenase; Baeyer–Villiger enzyme; Steroid oxidation; Purification; Characterization (Miyamoto, M. (1251) 115)

Flavonoid
Quercetin; Quercetin monoglucoside; Antioxidative activity; Lipid peroxidation (Ioku, K. (1234) 99)

Flavoprotein
NADH dehydrogenase; Assay condition; Electron transfer; Hexammineruthenium(III); Steady-state kinetics; (Bovine heart mitochondria) (Gavrikova, E.V. (1230) 23)

Flavoprotein fluorescence
Skinned muscle fiber; NAD(P)H fluorescence; Mitochondrial myopathy; Encephalomyopathy; (Human) (Winkler, K. (1272) 181)

Flocculating protein
Protein sequence; Flocculation activity; (*Moringa oleifera* Lam) (Gassenschmidt, U. (1243) 477)

Flocculation activity
Protein sequence; Flocculating proteins; (*Moringa oleifera* Lam) (Gassenschmidt, U. (1243) 477)

Flow culture system
Stimulation-secretion coupling; Hepatocyte growth factor; Interleukin-1α; Embryonic lung fibroblast; (Human) (Shimizu, M. (1244) 357)

Flow cytometry
Rhodamine-123; Mitochondrion; Membrane potential; (Rat liver) (López-Mediavilla, C. (1232) 27)

Electroporation; Molecular transport; Subpopulation; Heterogeneity; (Yeast) (Gift, E.A. (1234) 52)

Magainin peptide; Ion channel; Cytolysis; Eukaryotic cell; Propidium iodide; Anti-microbial peptide (Haimovich, B. (1240) 149)

LDL receptor; Burkitt's lymphoma cell; Lymphocyte; Apoptosis (Yen, C.F. (1257) 47)

Dopamine; Thymocyte; Programmed cell death; Apoptosis; X-ray microanalysis (Offen, D. (1268) 171)

Fluid force
Liposome; Calcium ion permeability; Shear stress; Fluorescence; Ion transport (Giorgio, T.D. (1239) 39)

Fluidity
MDCK cell; LLC-PK1 cell; OK cell; Endocytosis; Exocytosis (Giocondi, M.-C. (1234) 197)

Membrane; Signal processing; Megakaryoblast; (Human) (Schootemeijer, A. (1236) 128)

Placenta; Brush-border membrane; Liposome; Transition temperature; Glucose transport (Ghosh, P.K. (1236) 317)

DDE; Partition coefficient; Model membrane; Native membrane (Videira, R.A. (1238) 22)

Calcium signal; B lymphocyte; Supported monolayer; Lipid hapten; Confocal fluorescence microscopy; (Mouse) (Katayama, H. (1266) 191)

Fluorescence
Phytochrome; Heterogeneity; Excited state; Photochemistry; Intermediate; Dark reaction (Sineshchekov, V.A. (1228) 125)

Photosynthesis; Photosystem II; Q_A; Redox titration (Krieger, A. (1229) 193)

Photosynthesis; Photosystem II; Photoinhibition; Redox titration (Johnson, G.N. (1229) 202)

Hypersensitive response; Lipid peroxidation; Thermoluminescence; (*N. tabacum*) (Stallaert, V.M. (1229) 290)

Light harvesting; Energy transfer; Domain size; Reaction center; (*Rb. sphaeroides*) (Kramer, H. (1231) 89)

Pheophytin; Photosynthesis; Reaction center II; Spinach (Mimuro, M. (1232) 81)

Cholesterol; Time-resolved fluorescence; Platelet lipid; Diphenylhexatriene; *trans*-Parinaric acid (Vélez, M. (1235) 343)

Influenza virus; Sialic acid; Membrane fusion; Membrane binding; CEM cell; Neuraminidase (Pedroso de Lima, M.C. (1236) 323)

Liposome; Fluid force; Calcium ion permeability; Shear stress; Ion transport (Giorgio, T.D. (1239) 39)

Membrane fluidity; Heat shock; (*E. coli*) (Mejía, R. (1239) 195)

Local anesthetic; Partition coefficient; Membrane; Steric property; Lipid bilayer; Spin label; EPR (De Paula, E. (1240) 25)

Orosomucoid; α_1-Acid glycoprotein; Denaturation; Circular dichroism (Kodíček, M. (1246) 10)

Phospholipid; Membrane packing; Cholera toxin (Picking, W.L. (1247) 65)

Anticoagulant peptide; Secondary structure; Tertiary structure; Circular dichroism; Fourier transform infrared spectroscopy; Disulfide reduction; Molten globule (Sanyal, G. (1249) 100)

Azurin; Disulfide bond; Site-directed mutagenesis; Electron paramagnetic resonance; Circular dichroism; (*P. aeruginosa*) (Bonander, N. (1251) 48)

Albumin; Bile salt; Interaction; Binding; Amino acid (Farruggia, B. (1252) 59)

Carnitine acetyltransferase; Binding; Light scattering; Circular dichroism; Inhibition (Yan, B. (1253) 175)

LDL; Tryptophan; Lipid peroxidation; Vitamin E (Gießauf, A. (1256) 221)

Calcium; Olfactory neuron (Tareilus, E. (1269) 129)

Methylglyoxal; Lens crystallin; Cataract (Riley, M.L. (1270) 36)

Maillard reaction; Lung; Pentosidine; Collagen; Aging (Bellmunt, M.J. (1272) 53)

Fluorescence anisotropy
Acetylcholine receptor; Single-channel current; Cholesterol enrichment (Lasalde, J.A. (1235) 361)

Amino phospholipid; Peroxidation; Aggregation; Reverse micelle (Wang, J.-Y. (1236) 228)

Fluorescence-detected electric dichroism
Dipole moment; Rotational relaxation; ATPase, Na^+/K^+- (Porschke, D. (1231) 181)

Fluorescence emission spectrum
Absorption spectrum; Fluorescence yield; Photosystem II reaction center; Thermal equilibration (Zucchelli, G. (1229) 59)

Fluorescence induction
CP43; CP47; D2; Diuron; Precursor of D1 protein; (*S. obliquus*) (Gong, H. (1228) 181)

Fluorescence microscopy
Phospholipase A_2; Domain formation; Surface potential; Monolayer; Air/water interface; Asymmetric lipid; Fatty acid (Maloney, K.M. (1235) 395)

Fluorescence oligonucleotide
DNA–protein interaction; Repressor (Hagmar, P. (1244) 259)

Fluorescence photobleaching recovery
MHC class I antigen; Luteinizing hormone receptor; Time-resolved phosphorescence anisotropy; Rotational dynamics (Philpott, C.J. (1235) 62)

Fluorescence polarization
HDL; Lipid peroxidation; γ-Radiolysis; Oxygenated free radical; Cholesterol efflux; Atherosclerosis (Bonnefont-Rousselot, D. (1255) 23)

Fluorescence probe
Plasma membrane; Endocytic membrane; TMA-DPH (Illinger, D. (1239) 58)

Fluorescence production
Oxidized lipid/protein reaction; Polyunsaturated fatty acid oxidation; Oxidative stress; Lysine modification; Pyrrole production and polymerization (Zamora, R. (1258) 319)

Fluorescence quenching
Plasmalemma; Nitrate transport; Proton permeability; (Cyanobacterium) (Zinovieva, M. (1230) 91)

Vasodilator; Dipyridamole; Micelle; Drug localization (Borissevitch, I.E. (1238) 57)

Fluorescence recovery
Percolation theory; Adenylate cyclase; FRAP; Reticulocyte; Plasma membrane (Zakharova, O.M. (1236) 177)

Fluorescence spectroscopy
Photosystem I; Light-harvesting complex I; Femtosecond spectroscopy; Anisotropy; F690; F735; Energy transfer (Pålsson, L.-O. (1230) 1)

Amphipathic fatty acid derivative; Fatty acid; Membrane; Partition coefficient; NMR, ^{2}H-; Equilibrium dialysis (Lurie, E. (1235) 256)

α-Crystallin; Chaperone; Unfolded protein; NMR (Carver, J.A. (1252) 251)

Fluorescence yield
Absorption spectrum; Fluorescence emission spectrum; Photosystem II reaction center; Thermal equilibration (Zucchelli, G. (1229) 59)

Fluorescent phospholipid
Phospholipid transfer protein; Protein purification; Phosphatidylglycerol; Phosphatidylinositol; (Filamentous fungus); (*A. oryzae*) (Record, E. (1256) 18)

Fluorescent probe
Adsorption isotherm; Probe–membrane interaction; 9-Aminoacridine; Transmembrane pH difference; Bacterial chromatophore (Casadio, R. (1237) 23)

Fluoride
Adenylate cyclase; Forskolin; Corticotropin; Mathematical model (Juška, A. (1236) 289)

Fluorinated vesicle
Small unilamellar vesicle; Phospholipid; (Perfluoroalkyl)alkane; Phospholipase A_2; Membrane packing; (Porcine pancreas) (Privitera, N. (1254) 1)

Fluorogenic substrate
Dinucleoside polyphosphate; Diadenosine polyphosphate; Diethenoadenosine polyphosphate; Dinucleoside tetraphosphate (asymmetrical) hydrolase; Dinucleoside triphosphate hydrolase; (Chromaffin cell) (Ramos, A. (1253) 103)

Fluvastatin sodium
HMG-CoA reductase inhibitor; LDL receptor; Plasma cholesterol; Cholesterol 7α-hydroxylase; (WHHL rabbit) (Kurokawa, J.-i. (1259) 99)

Flux control coefficient
Adenine nucleotide translocase; Respiration; Mitochondrion; Postnatal development; (Brain) (Schönfeld, P. (1232) 75)

FM3A cell
Heat shock protein; Heat shock; HSP70; ts85 cell (Hatayama, T. (1269) 243)

fMet-Leu-Phe
Neutrophil; Chemotaxis; Morphological response; Time window; (Human) (Raif-Preminger, M. (1265) 49)

FMLP
Leukocyte; Chemotaxis; Cell polarization; Metal ion (Hujanen, E.S. (1245) 145)

FMR1 gene
Fragile X syndrome; Xq27.3; Trinucleotide repeat (Flannery, A.V. (1271) 293)

FNR-binding site
Promoter; Nitrous oxide reductase; NosZ; Regulation; Denitrification; Copper protein (Cuypers, H. (1264) 183)

Foam cell
Atherosclerosis; Cholesterol metabolism (Greenspan, P. (1257) 257)

Folate
Methenyltetrahydrofolate synthetase; Mitochondrion (Bertrand, R. (1266) 245)

Folate-binding protein
Doxorubicin; PEG-coated liposome; Tumor cell targeting; Liposome targeting (Lee, R.J. (1233) 134)

Folate-dependent trifunctional enzyme
cDNA; (*S. frugiperda*) (Tremblay, G.B. (1261) 129)

Force–velocity relation
Cardiac myosin; Motility assay, in vitro; Centrifuge microscope; Myosin (Sugiura, S. (1231) 69)

Forebrain mitochondrion
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Formate
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Formate dehydrogenase
Polysulfide reductase; Electron transport; Hydrogenase; (*W. succinogenes*) (Jankielewicz, A. (1231) 157)

Formation
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Forskolin
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Fourier transform infrared spectroscopy
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Fourier transform Raman spectroscopy
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Frameshift
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FRAP
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Free ceramide
Cestode; Ceramide; Glycosphingolipid; (*E. multilocularis*) (Persat, F. (1255) 280)

Free fatty acid
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Free radical
EPR; Microwave saturation; Oxygen evolution (Boussac, A. (1230) 195)

Alkylhydrazine; Spin trapping; Cytochrome *P*-4502E1 (Albano, E. (1243) 414)

Oxidative stress; Hydrogen peroxide; Bovine serum albumin; Iron; Nitrilotriacetic acid (Ogino, T. (1245) 359)

Catalase; NADPH; Peroxide; Electron transfer; (*P. mirabilis*) (Bicout, D.J. (1252) 172)

Squalene; Singlet oxygen; Lipid peroxidation (Kohno, Y. (1256) 52)

Antioxidant; Demethyldiisoeugenol; Lipid peroxidation; Superoxide anion; Peroxyl radical (Ko, F.-N. (1258) 145)

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Ubiquinone; Antioxidant; Prooxidant (Ernster, L. (1271) 195)

Free-radical scavenger
Neuromelanin; Antioxidant; Iron-ion sequestration; EPR-spin trapping; Fenton reaction (Zaręba, M. (1271) 343)

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Freezing
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Friction analysis
Friction coefficient; Enzyme kinetics; Control theory (Lolkema, J.S. (1252) 284)

Friction coefficient
Friction analysis; Enzyme kinetics; Control theory (Lolkema, J.S. (1252) 284)

Frozen solution
Chymotrypsin; Enzymatic peptide synthesis; Concentration effect (Tõugu, V. (1247) 272)

***fruA* gene**
Signal (leader) peptidase type I; *sip* gene; PCR cloning; Nucleotide sequence; Sequence alignment; (*Bacillus*) (Hoang, V. (1269) 64)

Fructofuranosidase
Invertase; Higher plant invertase; Fungal invertase; (*P. sanguineus*) (Quiroga, E.N. (1251) 75)

Fructose-bisphosphatase
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Fructose-1,6-bisphosphatase
Thioredoxin; Reaction kinetics; Protein complex formation; Enzyme activity; Fine regulation (Häberlein, I. (1253) 169)

Fructose 1,6-bisphosphate aldolase A
Embryotoxicity; Metal-binding protein; Nickel ion; (*Xenopus laevis*) (Antonijczuk, K. (1247) 81)

β-Fructosidase
Mid-FTIR; FTIR; Attenuated total reflection; Principal component regression; Enzyme kinetics (Cadet, F. (1246) 142)

Fructosyllysine
Glycation; Receptor; Monocyte; Monocyte like cells (Salazar, R. (1266) 57)

Glycation; Receptor; Amino acid sequence (Krantz, S. (1266) 109)

F_o subunit
Mitochondrial encephalomyopathy; mtDNA; NARP mutation; Heteroplasmy; ATP synthase (Houštěk, J. (1271) 349)

FTIR
Photosystem II; Oxygen evolution; Carboxylate ligand; Manganese cluster (Noguchi, T. (1228) 189)

Photosystem II; Photoinhibition; Thermoluminescence; Plastoquinone; D1 protein (Ono, T.-a. (1229) 239)

Photosystem II; Oxygen evolution; H/D exchange; Carboxylate; Hydrogen bond (Noguchi, T. (1232) 59)

Phospholipase D; Calcium ion; 1,2-Diacylglycerol; Cholesterol; α-Tocopherol (Yamamoto, I. (1233) 21)

DSC; Sphingosine; Stearylamine; Phosphatidylserine; Calcium ion binding (López-García, F. (1236) 279)

Metastability; Dimiristoylphosphatidylethanolamine; α-Tocopherol (Salgado, J. (1239) 213)

Mid-FTIR; Attenuated total reflection; Principal component regression; Enzyme kinetics; β-Fructosidase (Cadet, F. (1246) 142)

Microspectrometry; Protein structure; Crystal (Hadden, J.M. (1248) 115)

Alkaline phosphatase; CD; Denaturation; Secondary structure; Protein folding (De La Fournière, L. (1248) 186)

Phospho*enol*pyruvate carboxykinase; Circular dichroism; Secondary structure; (*S. cerevisiae*); (*E. coli*) (Encinas, M.V. (1252) 23)

Lyophilization; Secondary structure; Recombinant human albumin; Moisture-induced aggregation; Protein stability (Costantino, H.R. (1253) 69)

Collagen; Connective tissue; Cancer; (Human tissue) (Jackson, M. (1270) 1)

Fucoidan
Endotoxin; Plasminogen activator inhibitor-1; Endothelial cell; (Human umbilical vein) (Soeda, S. (1269) 85)

Fucoprotein
Fucosylation; Intestine; Development; Weaning; Glycosylation (Lenoir, D. (1234) 29)

Fucose 1-phosphate
Trophoblast; Cell adhesion; Cyclohexylamine; Adhesion molecule; Leukocyte (Douglas, G.C. (1266) 229)

α-L-Fucosidase
Lysosomal storage disease; Isoform spectrum; Intracellular storage; Fibroblast; (Human skin) (Beyer, E. (1270) 7)

Fucosylation
Fucoprotein; Intestine; Development; Weaning; Glycosylation (Lenoir, D. (1234) 29)

Full length cDNA
Type-I hair keratin; cDNA; Keratin; (Human) (Fink, P. (1264) 12)

Functional expression
Proton/peptide cotransport; cDNA cloning; β-Lactam antibiotic; (Human kidney) (Liu, W. (1235) 461)

Functional molecular mass
Brush-border membrane; Peptide/proton symporter; (Rat kidney) (Boll, M. (1233) 145)

Fungal invertase
Invertase; Fructofuranosidase; Higher plant invertase; (*P. sanguineus*) (Quiroga, E.N. (1251) 75)

Fungus
Ascomycete; Group I intron; ribosomal RNA (Egger, K.N. (1261) 275)

Fura-2
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Furan fatty acid
F-acid; Furan ring methylation; Cell suspension culture; (*Saccharum* spec.) (Scheinkönig, J. (1254) 73)

(Marine bacterium) (Shirasaka, N. (1258) 225)

Furan ring methylation
Furan fatty acid; F-acid; Cell suspension culture; (*Saccharum* spec.) (Scheinkönig, J. (1254) 73)

Furin
Amyloid precursor protein; Proprotein convertase; Alzheimer's disease (De Strooper, B. (1246) 185)

Fusinite
Oxygen; Cultured cell; Electron paramagnetic resonance; Light microscopy (Santini, M.T. (1243) 110)

Nitric oxide; Kinetics; EPR; In vivo measurement; CHO cell; Cell metabolism; Mitochondrion (Clarkson, R.B. (1243) 496)

Fusion
Aggregation; Interdigitation; Liposome; Ethanol; Vesicle (Komatsu, H. (1235) 270)

Lysis; Erythrocyte; HIV; AIDS; HIV glycoprotein 41 000 (gp41); Membrane; Red cell; Peptide; Melittin; Calcium ion (Mobley, P.W. (1271) 304)

Fusion protein
Bacterial adhesion; Carbohydrate binding (Hansson, L. (1244) 377)

Fusogenic peptide
Ethidium bromide; Melittin; HA2 influenza virus hemagglutinin (Midoux, P. (1239) 249)

Futile cycle
Ammonia; Methylammonium uptake; Compartmentation; Marine unicellular alga; (*P. tricornutum*) (Rees, T.A.V. (1228) 254)

G

GABA/benzodiazepine receptor
γ-Aminobutyric acid; Epilepsy; Alcohol; cDNA; RFLP; Gene mapping; (Mouse) (Kamatchi, G.L. (1261) 134)

Gadolinium
Kidney epithelium; Inner medullary collecting duct; Cation channel; ATP (Nonaka, T. (1233) 163)

Galactitol
PTS; *gat* operon; DNA sequence; (*E. coli*); (Strain EC3132) (Nobelmann, B. (1262) 69)

α-Galactosidase
Lysosomal enzyme; Enzyme activity; (Coffee bean) (Zhu, A. (1247) 260)

Amino acid substitution; Thermostability; Chimeric mutation (Ishii, S. (1270) 163)

β-Galactoside α-2,6-sialyltransferase
Transcriptional regulation; Acute phase reactant; Interleukin 6 induction; (HepG2 cell) (Aas-Eng, D.A. (1261) 166)

Galanin
Neuropeptide; Circular dichroism; Secondary structure; Solvent stabilization (Öhman, A. (1236) 259)

Gal4 DNA-binding domain
Transcription factor; GUS assay; Histone H3 gene; BY-2 cell; (Wheat); (Tobacco) (Nakayama, T. (1263) 281)

Gall bladder
Phosphatidylcholine; Cholesterol (Fudim-Levin, E. (1259) 23)

Gallstone
Cholesterol; Nucleation; Hydrophobicity; Bile salt (Juste, C. (1254) 89)

NMR, ^{1}H; Bile; Bile lipid; Vesicle; Micelle (Sequeira, S.S. (1256) 360)

Gametogenesis
N-*ras*; *unr*; Developmental expression (López-Fernández, L.A. (1263) 10)

Gamma subunit
Vacuolar ATPase; ATPase, F-type; Vacuole; Proton pump; (*Neurospora crassa*) (Bowman, E.J. (1237) 95)

Ganglioside
Protein-lipid binding; Polyacrylamide gel electrophoresis; Lipid vesicle; Micelle; Cholera toxin; Streptavidin; Annexin (Arnold, M. (1233) 198)

Glycosphingolipid; Liposome; Freeze-etch; Electron microscopy (Palestini, P. (1235) 221)

N-Acylphosphatidylethanolamine; Liposome stability; Membrane fluidity; Serum protein; Serum–liposome interaction (Mercadal, M. (1235) 281)

Lens; Cataract, human senile; Sialyl-Lewis^x (Ogiso, M. (1256) 166)

Mast cell (Zuberbier, T. (1269) 79)

Ganglioside, α-series
Ganglioside, a-series; Mammary gland; Fat globule membrane; TLC-immunostaining (Momoeda, M. (1256) 151)

Ganglioside, a-series
Ganglioside, α-series; Mammary gland; Fat globule membrane; TLC-immunostaining (Momoeda, M. (1256) 151)

Ganglioside GM1
Calcium influx; Cellular proliferation (Buckley, N.E. (1256) 275)

Gas-phase cigarette smoke
Reverse cholesterol transport; Lecithin:cholesterol acyltransferase (Bielicki, J.K. (1258) 35)

Gastric cancer
Ribosomal protein; Colon cancer; Subtractive cDNA hybridization; Ubiquitin; UbA52; UbA80; Cancer (Barnard, G.F. (1272) 147)

Gastric mucosa
Gastric mucus; Gastric surfactant; Phospholipid; Phosphatidylcholine species; DPPC (Bernhard, W. (1255) 99)

Gastric mucus
Gastric mucosa; Gastric surfactant; Phospholipid; Phosphatidylcholine species; DPPC (Bernhard, W. (1255) 99)

Gastric surfactant
Gastric mucosa; Gastric mucus; Phospholipid; Phosphatidylcholine species; DPPC (Bernhard, W. (1255) 99)

***gat* operon**
Galactitol; PTS; DNA sequence; (*E. coli*); (Strain EC3132) (Nobelmann, B. (1262) 69)

Gb3/CD77
Glycosyltransferase; Lymphocyte, B-; Differentiation; Carbohydrate antigen (Taga, S. (1254) 56)

G-box binding complex
14-3-3 protein; Signal transduction; (*Chlamydomonas*) (Liebich, I. (1263) 79)

GCAP-II
Guanylin; Guanylate cyclase C; cDNA sequence; (Human colon) (Hill, O. (1253) 146)

GC-MS
Platelet-activating factor; Acetyltransferase; Choline-phosphotransferase; (Lower animals) (Sugiura, T. (1258) 19)

Gelatinase
Angiogenesis; Matrix metalloproteinase; Tissue inhibitor; Cartilage; Chondrocyte; Yolksac (Ohba, Y. (1245) 1)

Gelatinase B
Matrilysin; Collagenase; Zymogen activation; Human matrix metalloproteinase (Sang, Q.-X. (1251) 99)

Gel mobility shift assay
Apolipoprotein E gene; Nuclear factor; Transcriptional regulatory element; Protein binding domain; (Mouse) (Paik, Y.-K. (1262) 124)

Gel retardation assay
Heat shock gene; Promoter; Heat shock factor; Subsite of active site; (*S. mansoni*) (Levy-Holtzman, R. (1264) 134)

Gelsolin
Synaptic vesicle; Actin network; Dynamic light scattering (Miyamoto, S. (1244) 85)

Gender difference
D-Glutamate; D-Aspartate; D-Aspartate oxidase (Kera, Y. (1243) 282)

Gene
ATPase, V-; Intron; Bioenergetics; (*C. caldarium*) (Ziegler, K. (1230) 202)

PAF; PAF receptor; Signal transduction (Izumi, T. (1259) 317)

cDNA sequence; Genomic DNA; Protyrosinase; Tyrosinase; (*Aspergillus oryzae*) (Fujita, Y. (1261) 151)

Crystallin; Promoter; Evolution; Heat shock; Stress (Wistow, G. (1263) 105)

Insulin receptor; Posttranscriptional regulation; mRNA stability; Polyadenylation (Levy, J.R. (1263) 253)

Protein synthesis; Initiation factor; (Rat) (Flowers, K.M. (1264) 163)

Gene characterization
Transcriptional elongation factor; Genomic clone; (*D. melanogaster*) (Oh, Y. (1262) 99)

Gene cloning
G protein-coupled receptor; Seven-transmembrane domain receptor; Transmembrane domain; (*Oryzias latipes*) (Yasuoka, A. (1235) 467)

Diapause hormone and pheromone biosynthesis activating neuropeptide gene; Gene sequencing; Neuropeptide; Embryonic diapause; (*B. mori*) (Xu, W.-H. (1261) 83)

RNP protein family; (Chicken) (Cvekl, A. (1261) 290)

Thyroid-specific enhancer-binding protein (T/EBP); cDNA cloning; Gene structure; Sequence comparison (Oguchi, H. (1261) 304)

Thyroid transcription factor 1; Sequence analysis; Sequence comparison; (Human) (Saiardi, A. (1261) 307)

Gene evolution
Cytochrome *P*-450; Pseudogene; CYP3A (Schuetz, J.D. (1261) 161)

Gene substitution; Isozyme; Molecular evolution; Transit peptide (Schmidt, M. (1261) 257)

Gene expression
cDNA; Recombinant protein; Transcription; Translation; Localization; Polymorphism; Atomic structure (Lundström, K. (1251) 1)

Proteinase inhibitor 6; Placental thrombin inhibitor; Serine proteinase inhibitor; Serpin; Thrombin inhibitor; (*P. pastoris*) (Sun, J. (1252) 28)

Cystine diet; Hepatic lipase; Lipoprotein lipase; HDL_1; (Rat) (Benhizia, F. (1255) 50)

Arachidonic acid metabolism; Icosanoid; 5-Lipoxygenase; Mast cell; Thromboxane (Macchia, L. (1257) 58)

Magnesium; Apolipoprotein; Lipoprotein; Liver; (Rat) (Nassir, F. (1257) 125)

Aging; Apolipoprotein A-I; Lipoprotein (Shah, G.N. (1259) 277)

Leukemia inhibitory factor; hLIF; Expression vector; Synthetic gene; Protein characterization; (*E. coli*); (Human) (Samal, B.B. (1260) 27)

Lectin; Von Willebrand factor; cDNA cloning; Baculovirus vector; (Silkworm) (Kotani, E. (1260) 245)

α1(I) Collagen; mRNA stability (Määttä, A. (1260) 294)

Melanotransferrin; Melanoma; Enhancer (Rozé, A. (1260) 301)

Cytochrome *P*-450; CYP3A; (Rat liver) (Strotkamp, D. (1260) 341)

Argininosuccinate lyase; δ-Crystallin; CR1; Lens; Enhancer; (Duck) (Li, X. (1261) 25)

Ceruloplasmin; Uterus; Plasma protein (Thomas, T. (1261) 77)

Intercellular adhesion molecule; Heavy metal modulation; (Human) (Martinotti, S. (1261) 107)

cDNA; Genomic organization; Wheat histone H2A; Histone primary structure (Huh, G.H. (1261) 155)

Megakaryocytic differentiation; mRNA metabolism; Globin mRNA; mRNA decay (Lumelsky, N.L. (1261) 265)

Protein kinase; cDNA sequence; (*X. laevis*) (Mukai, H. (1261) 296)

Pancreatic type ribonuclease family; RNAase 4; cDNA cloning; (Pancreas); (Human) (Seno, M. (1261) 424)

Tax; HTLV-I; (Mouse) (Nacken, W. (1261) 432)

Differential display; Embryonic development; (*X. laevis*) (Adati, N. (1262) 43)

DNA sequence; Ribosomal protein; mRNA; (Human) (Frigerio, J.-M. (1262) 64)

Lymphocyte activation; Transcription factor; Interleukin 2; Reactive oxygen species; Cellular redox state (Goldstone, S.D. (1263) 114)

cyclic AMP; Amino acid sequence; Nucleotide sequence; Ferredoxin reductase; (Mouse) (Itoh, S. (1264) 159)

DNA topoisomerase; Non-small cell lung cancer; Chemotherapy; Proliferation (Giaccone, G. (1264) 337)

Voltage-gated potassium ion channel; Protein kinase (Takimoto, K. (1265) 22)

Fibroblast growth factor; Myoblast; Immediate early gene; MAP kinase; Signal transduction (Lim, R.W. (1266) 91)

Urokinase-type plasminogen activator (uPA); Pre-B lymphoma cell line; cyclic AMP; cyclic-AMP-dependent protein kinase (Shinbo, M. (1268) 293)

DNA repair; MGMT; MPG; Hepatocyte; (Rat) (Grombacher, T. (1270) 63)

Gene family
RNA unwinding; RNA-helicase; DEAD-box protein; (Tobacco) (Brander, K.A. (1261) 442)

Gene family characterization
Pleiotropic phenotype; Gene mutation; Sequence comparison; (*S. cerevisiae*) (Revardel, E. (1263) 261)

Gene mapping
GABA/benzodiazepine receptor; γ-Aminobutyric acid; Epilepsy; Alcohol; cDNA; RFLP; (Mouse) (Kamatchi, G.L. (1261) 134)

Gene mutation
Pleiotropic phenotype; Gene family characterization; Sequence comparison; (*S. cerevisiae*) (Revardel, E. (1263) 261)

Gene 5 protein
Filamentous bacteriophage; Single-stranded DNA binding protein; Tyrosine fluorescence; Site-directed mutagenesis (Turner, G.P. (1260) 79)

Gene regulation
Apolipoprotein A-I; Polymorphism; *cis*-regulatory element (Sorci-Thomas, M. (1256) 387)

Dopamine receptors; Metallothionein promoter; GH4C1 cells; Recombination (Allard, S. (1260) 43)

PDGF-A; Serum; 12-*O*-Tetradecanoylphorbol-13-acetate; Cycloheximide (Takimoto, Y. (1260) 176)

G protein; Protein kinase A; Protein kinase C; cAMP; (Sertoli cell) (Taskén, K.A. (1260) 269)

Acid β-glucosidase; Lysosomal enzyme; Promoter; (Human) (Doll, R.F. (1261) 57)

Crystallin; In vivo footprinting; Transgenic mouse; Lens; Eye (Duncan, M.K. (1261) 68)

Nucleotide sequence; Thiamine; Aflatoxin; (*Aspergillus*) (Cary, J.W. (1261) 319)

Vitamin D metabolism; Calcium metabolism; Cytochrome *P*-450; Vitamin D hydroxylase (Chen, K.-S. (1263) 1)

Intestinal differentiation; P-glycoprotein; Multidrug transporter; *mdr* gene (Chianale, J. (1264) 369)

Gene sequence
hapP gene; (*Physarum*) (Lépine, G. (1264) 271)

Gene sequencing
Diapause hormone and pheromone biosynthesis activating neuropeptide gene; Gene cloning; Neuropeptide; Embryonic diapause; (*B. mori*) (Xu, W.-H. (1261) 83)

Gene structure
Ferredoxin-$NADP^+$ oxidoreductase; Nucleotide sequence; (Rice root); (*Oryza sativa* L.) (Aoki, H. (1229) 389)

T cell; CD40 ligand; Ig heavy chain; Chromosome X-linked hyper-IgM syndrome (Shimadzu, M. (1260) 67)

Phosphofructokinase; (*E. listolytica*) (Huang, M. (1260) 215)

Thyroid-specific enhancer-binding protein (T/EBP); cDNA cloning; Gene cloning; Sequence comparison (Oguchi, H. (1261) 304)

Hemoglobin; Intron; Evolution; Ciliated protist (Yamauchi, K. (1264) 53)

Gene substitution
Gene evolution; Isozyme; Molecular evolution; Transit peptide (Schmidt, M. (1261) 257)

Gene tagging
IAP; Retrotransposon; Aging; (Mouse liver) (Dupressoir, A. (1264) 397)

Gene targeting
Creatine kinase; Mitochondrion; Embryonic stem cell; Energy metabolism; Fertility (Steeghs, K. (1230) 130)

Gene therapy
Transfection; Cationic liposome; Liposome; Endocytosis (Farhood, H. (1235) 289)

Genetic manipulation
Pituitary growth hormone; Coding sequence; Expression level; (*E. coli*) (Wallis, O.C. (1261) 360)

Genetic variant
Missense mutation; Human factor *X*; Immunosorbent; Western blotting; Amino acid sequence; DNA sequence (Kim, D.J. (1271) 327)

Gene transcript
Pancreatitis associated protein II; Differential splicing (Vasseur, S. (1261) 272)

Gene transcription
mts1 gene; DNA methylation; DNAaseI hypersensitivity site (Tulchinsky, E. (1261) 243)

Preprotachykinin; Transcription factor AP2; Substance P (Quinn, J.P. (1263) 25)

PEPCK; Insulin; (Human) (O'Brien, R.M. (1264) 284)

Glutamine; Fibroblast; Collagen synthesis (Bellon, G. (1268) 311)

Genistein
Tyrosine kinase; Daidzein; Myometrium; Calcium ion current; Whole-cell voltage clamp; (Uterine smooth muscle); (Pregnant rat) (Kusaka, M. (1240) 196)

Genomic clone
cDNA clone; RNA end; (Human) (Selvamurugan, N. (1260) 230)

Transcriptional elongation factor; Gene characterization; (*D. melanogaster*) (Oh, Y. (1262) 99)

Genomic DNA
cDNA sequence; Gene; Protyrosinase; Tyrosinase; (*Aspergillus oryzae*) (Fujita, Y. (1261) 151)

Genomic DNA sequence
Arginine vasopressin; Type 1a receptor (Hutchins, A.-M. (1263) 266)

Genomic organization
cDNA; Gene expression; Wheat histone H2A; Histone primary structure (Huh, G.H. (1261) 155)

Gentamicin
Nanoparticle; Polysaccharide; Drug carrier; Phospholipid; Doxorubicin (De Miguel, I. (1237) 49)

Daptomycin; Aminoglycoside; Nephrotoxicity; Phosphatidylinositol; Infrared spectroscopy (Gurnani, K. (1237) 86)

Geometry
Molecular orbital; Tyrosine; Spin density distribution; EPR; ENDOR (O'Malley, P.J. (1232) 175)

pGEX
Erythropoietin; Expression vector; Mutant (Bill, R.M. (1261) 35)

GFAP
Aging; Common deletion; Electron transport chain; Glial fibrillary acidic protein; Mitochondrion; mtDNA (Chen, X. (1271) 229)

GH4C1 cell
Dopamine receptors; Metallothionein promoter; Gene regulation; Recombination (Allard, S. (1260) 43)

Ghost
Palmitoylation; Red blood cell; Acylation; Hydroxylamine (Schmidt, M.F.G. (1257) 205)

Giant patch
EGTA; Sodium–calcium ion exchange; Ionophore A23187; Submembrane calcium ion; Temperature; Cardiac membrane (Kabakov, A.Y. (1240) 142)

Ginger protease
Cysteine protease; *p*-Chloromercuribenzoate; Isoelectric focusing; SDS electrophoresis; TSK G2000 gel chromatography (Ohtsuki, K. (1243) 181)

Glanzmann's thrombosthenia
ADP; Photoaffinity labeling; Receptor; Binding (Greco, N.J. (1236) 142)

GlcNAc-PI
PIG-A; GPI anchor; PNH (Yu, J. (1255) 344)

Gliadin
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Gliadin peptide
Coeliac disease; In vitro toxicity (Cornell, H. (1270) 168)

Glial cell
Thromboxane A_2 receptor; cDNA cloning; Astrocyte; (Rat) (Kitanaka, J.-i. (1265) 220)

Glial fibrillary acidic protein
Aging; Common deletion; Electron transport chain; GFAP; Mitochondrion; mtDNA (Chen, X. (1271) 229)

Glibenclamide
Cromakalim; Lemakalim (Tromba, C. (1266) 268)

Glioblastoma cell
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Global stability
Cytochrome *c*; Amino acid substitution, His-26 to Val; Amino acid substitution, His-33 to Phe; Double mutant; Local stability (Qin, W. (1252) 87)

Globin mRNA
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Globoside
Glycolipid; Photoaffinity; Band 3 (Pacuszka, T. (1257) 265)

Glucagon
Bivascular liver perfusion; Signal transmission; Glycogenolysis; Glycolysis; Oxygen uptake; (Rat liver) (Constantin, J. (1244) 169)

Glucagon perfusion
Liver acinus; Redox gradient; (Rat) (Sato, B. (1268) 20)

β-Glucanase, (1 → 3)-
β-Glucanase, (1 → 3,1 → 4)-; Reaction mechanism; NMR; (Barley); (*E. coli*); (*L. digitata*) (Chen, L. (1253) 112)

β-Glucanase, (1 → 3,1 → 4)-
β-Glucanase, (1 → 3)-; Reaction mechanism; NMR; (Barley); (*E. coli*); (*L. digitata*) (Chen, L. (1253) 112)

α-1,4-Glucan lyase
1,5-Anhydro-D-fructose; Starch; Glycogen (Yu, S. (1244) 1)

Glucocorticoid
Aldosterone; Kidney; NAD; NADP (Alfaidy, N. (1243) 461)

Pulmonary surfactant; Surfactant-associated protein; Transcription; mRNA level; Fetal development; Respiratory distress syndrome (Xu, J. (1254) 302)

Lung development; Alveolar type II cell; Fetal lung; Epidermal growth factor; Organ culture (Tangada, S.D. (1268) 191)

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Gluconeogenesis
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Glucose 6-phosphate
Glycogen synthase; Insulin; Skeletal muscle; Allosteric activation (Villar-Palasi, C. (1244) 203)

Glucose-6-phosphate dehydrogenase
Enzyme; Antarctic fish; Kinetic analysis; Thermodynamic analysis; Cold adaptation (Ciardiello, M.A. (1250) 76)

Glucose starvation
Glucose transporter; Transport mutant; Myogenic differentiation; Regulation; (Myoblast) (Lu, Z. (1234) 155)

Glucose transport
Placenta; Brush-border membrane; Liposome; Fluidity; Transition temperature (Ghosh, P.K. (1236) 317)

Facilitated diffusion; Radioactive tracer analysis; Inhibitor; (*H. pylori*) (Mendz, G.L. (1244) 269)

Nitric oxide; *S*-Nitrosylation; Advanced glycosylation end products (AGE); Glutathione; Lymphocyte proliferation; cGMP; (Human) (Farkas, J. (1245) 305)

Insulin; Protein kinase C; Phorbol ester (Russ, M. (1265) 73)

Endothelial cell; Histamine; Insulin; GLUT1; GLUT4 (Thomas, J. (1268) 88)

Glucose transporter
Transport mutant; Glucose starvation; Myogenic differentiation; Regulation; (Myoblast) (Lu, Z. (1234) 155)

Glucosidase
Glycosidase; Slow, tight-binding inhibitor; Trehalase; Trehazolin (Ando, O. (1244) 295)

β-Glucosidase
Purification; Characterization; Glucose-enhanced glucosidase; (Streptomycete) (Pérez-Pons, J.A. (1251) 145)

D-Glucuronic acid analogue
Proteoglycan; Glycosaminoglycan; 3-Deoxy-D-galactose; Glycosaminoglycan synthesis; Protein synthesis; Hepatocyte (Thomas, S.S. (1272) 37)

Glucuronidation
UDP-glucuronosyltransferase; Human liver; Inhibitors; Molecular modeling (Battaglia, E. (1243) 9)

GLUT1
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Glucose transport; Endothelial cell; Histamine; Insulin; GLUT4 (Thomas, J. (1268) 88)

GLUT4
Glucose transport; Endothelial cell; Histamine; Insulin; GLUT1 (Thomas, J. (1268) 88)

Glutamate
N-Acylphosphatidylethanolamine; *N*-Acylethanolamine; Anandamide; Neurotoxicity; Cortical neuron (Hansen, H.S. (1258) 303)

Chlorophyll biosynthesis; tRNA identity; Aminolevulinic acid; Glutamyl tRNA synthetase; Glutamyl tRNA reductase; (Barley) (Willows, R.D. (1263) 228)

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D-Aspartate; Gender difference; D-Aspartate oxidase (Kera, Y. (1243) 282)

L-Glutamate
Nitrous oxide; High pressure; Ion channel; Anesthesia (Macdonald, A.G. (1236) 135)

Glutamate binding protein homologue
NMDARA1 homologue; Embryogenesis; (*Drosophila*) (Pellicena-Pallé, A. (1261) 301)

Glutamate dehydrogenase
Glutamine; Platelets; Amino acid uptake; Glutaminase I; Mitochondria; Aspartate transaminase (Vasta, V. (1243) 43)

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Kinetic mechanism; Steady state kinetics; Archaebacterial; Thermophile; (*Thermococcales*) (Hudson, R.C. (1250) 60)

Glutamate transport
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Glutamate transporter
Molecular cloning; cDNA sequence; (Mouse brain) (Mukainaka, Y. (1244) 233)

Glutaminase I
Glutamine; Platelets; Amino acid uptake; Mitochondria; Glutamate dehydrogenase; Aspartate transaminase (Vasta, V. (1243) 43)

Glutamine
Platelets; Amino acid uptake; Glutaminase I; Mitochondria; Glutamate dehydrogenase; Aspartate transaminase (Vasta, V. (1243) 43)

Cell volume; Glucose; Lymphocyte; Macrophage (Wu, G. (1243) 343)

Pyridoxine; Biosynthesis; (*S. cerevisiae*) (Tazuya, K. (1244) 113)

Gene transcription; Fibroblast; Collagen synthesis (Bellon, G. (1268) 311)

γ-Glutamyl transferase
Post-translational modification; Cancer; Sugar chain; Precursor form; (Human); (Kidney) (Arai, K. (1253) 33)

Glutamyl tRNA reductase
Chlorophyll biosynthesis; tRNA identity; Aminolevulinic acid; Glutamate; Glutamyl tRNA synthetase; (Barley) (Willows, R.D. (1263) 228)

Glutamyl tRNA synthetase
Chlorophyll biosynthesis; tRNA identity; Aminolevulinic acid; Glutamate; Glutamyl tRNA reductase; (Barley) (Willows, R.D. (1263) 228)

Glutardialdehyde
Polypeptide chain cross-linking; Cross-linking theory; Porin; (E. coli) (Azem, A. (1243) 151)

Glutathione
Nitric oxide; *S*-Nitrosylation; Advanced glycosylation end products (AGE); Lymphocyte proliferation; cGMP; Glucose transport; (Human) (Farkas, J. (1245) 305)

Macrophage migration inhibitory factor; NMR; (Rat liver) (Nishihira, J. (1247) 159)

Thioltransferase; NMR; Thiol/disulfide exchange; Enzyme kinetics (Rabenstein, D.L. (1249) 29)

Glutathione synthesis; Ocular lens; NMR, ^{13}C-; Tissue redox state (Willis, J.A. (1265) 1)

Selenium; Glutathione peroxidase; *t*-Butyl hydroperoxide; Leukemia cell (Korytowski, W. (1267) 31)

Cysteine; Cysteinylglycine; Cell culture; Homocysteine (Hultberg, B. (1269) 6)

Mitochondrion; Permeability transition; Cyclosporin A; Calcium ion (Reed, D.J. (1271) 43)

Herbimycin A; 19-Allylaminoherbimycin A; Granulocyte-macrophage colony-stimulating factor; Growth inhibition; U937 cell (Makishima, M. (1272) 199)

Glutathione deficiency
Buthionine sulfoxide; Reactive oxygen species; Ascorbate (Meister, A. (1271) 35)

Glutathione peroxidase
tert-Butyl hydroperoxide; Glutathione *S*-transferase; Oxidative stress; Fibroblast (Makino, N. (1243) 503)

Mitochondrion; Oxidative stress; Lipid hydroperoxide; (*Hansenula mrakii*) (Inoue, Y. (1245) 325)

Non-enzymatic glycation; Long range H-bonding (Baldwin, J.S. (1247) 60)

Glutathione; Selenium; *t*-Butyl hydroperoxide; Leukemia cell (Korytowski, W. (1267) 31)

Glutathione-protein mixed disulfide
GSH; GSSG; Protein sulphydryl groups; NADPH; Oxidative stress (Rossi, R. (1243) 230)

Glutathione reductase
Trisulfide; Trypanothione reductase (Moutiez, M. (1245) 161)

Glutathione *S*-conjugate
Erythrocyte; Transport; Bimane (Pułaski, Ł. (1268) 279)

Glutathione *S*-transferase
Ethylene dibromide; Class theta; Erythrocyte; (Human) (Ploemen, J.H.T.M. (1243) 469)

tert-Butyl hydroperoxide; Glutathione peroxidase; Oxidative stress; Fibroblast (Makino, N. (1243) 503)

Ligand binding; Protein conformation (Bico, P. (1247) 225)

Glutathione *S*-transferase P
Carboxypeptidase; Carboxyl terminus; (Rat) (Nishihira, J. (1252) 233)

Glutathione synthesis
Glutathione; Ocular lens; NMR, ^{13}C-; Tissue redox state (Willis, J.A. (1265) 1)

GlyCAM-1
PP3; Mammary gland; Mastitic inflammation; Lymphocyte; Adhesion molecule (Johnsen, L.B. (1260) 116)

***N*-Glycan chain**
Glycoprotein; Malignant transformation; Structural alteration; (Rat normal cell); (Rat tumor cell) (Goulut-Chassaing, C. (1244) 30)

Glycated protein
Glycation; Hexitol-lysine antibody; Tissue distribution; Diabetes (Myint, T. (1272) 73)

Glycation
Chemiluminescence; Enolization; Hydrogen peroxide; Maillard reaction; Pyrone hydroperoxide (Lertsiri, S. (1245) 278)

Glycosylation; Glyceraldehyde-3-phosphate dehydrogenase; Denaturation; Conformation (He, R.-Q. (1253) 47)

Receptor; Fructosyllysine; Monocyte; Monocyte like cells (Salazar, R. (1266) 57)

Fructosyllysine; Receptor; Amino acid sequence (Krantz, S. (1266) 109)

Glycated protein; Hexitol-lysine antibody; Tissue distribution; Diabetes (Myint, T. (1272) 73)

Glyceraldehyde-3-phosphate dehydrogenase
Induced hibernation; Enzyme isoform; Chromatofocusing (Soukri, A. (1243) 161)

(*S*)-3-Chlorolactaldehyde; 1,6-Dichloro-1,6-dideoxy-D-fructose; Aldolase; Glycolytic inhibition; (Boar spermatozoa) (Jones, A.R. (1244) 141)

Glycation; Glycosylation; Denaturation; Conformation (He, R.-Q. (1253) 47)

Glycerol
Phosphatidylethanolamine; Phase diagram; Phase behavior; Crystallization; Cryoprotectant (Yu, Z.-W. (1237) 135)

Glycerolipid
Ethanol; Acylation; Liposynthesis; Reticulocyte; (Rat) (Le Petit-Thevenin, J. (1257) 103)

Ethanol; Phosphatidate phosphohydrolase; Liposynthesis; Reticulocyte; (Rat) (Le Petit-Thevenin, J. (1257) 111)

Glycerolipid formation
Adipose tissue; Liver; Intestinal mucosa; Obesity; Triacylglycerol; Phosphatidate phosphohydrolase (Jamdar, S.C. (1255) 237)

Glycerol lipid
Ether lipid; Phosphatidylglycerol; Phosphatidylethanolamine; Archaebacterium; (*Methanosarcina barkeri*) (Nishihara, M. (1254) 155)

Glycerol-3-phosphate acyltransferase
Microsomal membrane; Affinity chromatography; (Avocado); (*P. americana*) (Eccleston, V.S. (1257) 1)

α-Glycerol-3-phosphate dehydrogenase
cDNA cloning; Nucleotide sequence; Liver; (Human) (Menaya, J. (1262) 91)

Glycerophosphorylcholine
NMR spectroscopy; Inositol; Seminal plasma; Reproduction (Kamp, G. (1243) 101)

Glycine-rich loop
ATP-binding site; Peptide analysis; Recombinant expression; Creatine kinase; Autophosphorylation (Hemmer, W. (1251) 81)

Glycine uptake
Phorbol ester; Glioblastoma cell (Gomeza, J. (1233) 41)

Glycoalkaloid
Tubular structure; Sterol; Glycolipid (Keukens, E.A.J. (1240) 216)

Glycocholate
Cholyl-lysylfluorescein; Biliary lipid; Bile acid; Liver (Baxter, D.J. (1256) 374)

Glycogen
α-1,4-Glucan lyase; 1,5-Anhydro-D-fructose; Starch (Yu, S. (1244) 1)

Glycogenolysis
Amylin; cyclic AMP; Skeletal muscle (Pittner, R. (1267) 75)

Bivascular liver perfusion; Signal transmission; Glucagon; Glycolysis; Oxygen uptake; (Rat liver) (Constantin, J. (1244) 169)

NMR, ^{31}P-; Phosphate transport; Mitochondrion (Radda, G.K. (1271) 15)

Glycogen phosphorylase
McArdle's disease; Muscle glycolysis (Bartram, C. (1272) 1)

Glycogen synthase
Insulin; Glucose 6-phosphate; Skeletal muscle; Allosteric activation (Villar-Palasi, C. (1244) 203)

Glycogen synthase kinase-3
Pollen development; Pollen embryogenesis; Protein kinase; *shaggy*; (*N. tabacum*) (Einzenberger, E. (1260) 315)

Glycogen synthesis
Gluconeogenesis; Lactate; Hepatocyte (rat) (Tosh, D. (1268) 165)

Glycolaldehyde
Alveolar macrophage; Nitrogen dioxide; Aldehyde; 4-Hydroxynonenal (Robison, T.W. (1256) 334)

Glycolipid
Phospholipid bilayer; Order parameter; NMR, ^{2}H-; Fatty acid (Morrow, M.R. (1235) 239)

Glycoalkaloid; Tubular structure; Sterol (Keukens, E.A.J. (1240) 216)

Cerebroside; LIPIDAT; Lyotropic; Sphingomyelin; Thermotropic (Koynova, R. (1255) 213)

Photoaffinity; Band 3; Globoside (Pacuszka, T. (1257) 265)

***N*-Glycolylneuraminic acid**
Sialyltransferase; Sialic acid (Hamamoto, T. (1244) 223)

Glycolysis
Bivascular liver perfusion; Signal transmission; Glucagon; Glycogenolysis; Oxygen uptake; (Rat liver) (Constantin, J. (1244) 169)

Trehalose; Trehalase; Heat stress; (*Neurospora crassa*) (Bonini, B.M. (1245) 339)

Actin; Contractile activity; Enzyme binding; Hexokinase; Low-frequency stimulation; Mitochondrion; Phosphofructokinase; Skeletal muscle (Parra, J. (1251) 154)

Glycolytic inhibition
(*S*)-3-Chlorolactaldehyde; 1,6-Dichloro-1,6-dideoxy-D-fructose; Aldolase; Glyceraldehyde-3-phosphate dehydrogenase; (Boar spermatozoa) (Jones, A.R. (1244) 141)

Glycophorin
Scavenger receptor; Sialosaccharide; Macrophage recognition; Oxidized cell; LDL; (Erythrocyte) (Beppu, M. (1268) 9)

Glycoprotein
P-glycoprotein; Brain capillary; Membrane; Cancer (Beaulieu, E. (1233) 27)

Renal cyst; P-glycoprotein; Vinblastine; Verapamil; MDCK; Drug delivery (Simmons, N.L. (1237) 31)

N-Glycan chain; Malignant transformation; Structural alteration; (Rat normal cell); (Rat tumor cell) (Goulut-Chassaing, C. (1244) 30)

Protein, 550 kDa; Actin-binding protein; α-Actinin; Laminin; Fibronectin (Hattori, A. (1245) 201)

α2-HS glycoprotein; Jacalin; (Human) (To, W.Y. (1249) 58)

Carbohydrate structure; Alloalbumin; *N*-Glycosylation; Disulfide bond (Sakamoto, Y. (1252) 209)

Metalloproteinase; Recombinant gene product; Active site; Mutation; Activation mechanism; (*Leishmania*) (Macdonald, M.H. (1253) 199)

Translational regulation; Initiation factor-2; cDNA; (Human) (Li, X. (1260) 333)

Oviduct; Sperm; Lectin; Sialic acid; Oligosaccharide (Satoh, T. (1266) 117)

Glycoprotein antigen
Milk fat globule membrane; Mammary epithelial cell; cDNA cloning; (Bovine milk) (Aoki, N. (1245) 385)

Glycoprotein Ib
Tyrosine phosphorylation; Platelet; Platelet aggregation; Von Willebrand factor; (Human) (Ozaki, Y. (1243) 482)

Flavocetin-A and -B; Shear stress; Platelet aggregation; Von Willebrand factor; (Snake venom) (Taniuchi, Y. (1244) 331)

Glycosaminoglycan
Heparin; Chondroitin sulfate; Human plasma (Volpi, N. (1243) 49)

Extracellular matrix; Fibroblast growth factor (Congote, L.F. (1243) 538)

Oxygen derived free radical; Connective tissue degradation (Moseley, R. (1244) 245)

Proteoglycan; Heparan sulfate; Endothelial cell (Pye, D.A. (1266) 235)

Proteoglycan; Sulfation; B cell differentiation; Syndecan (Engelmann, S. (1267) 6)

Proteoglycan; 3-Deoxy-D-galactose; D-Glucuronic acid analogue; Glycosaminoglycan synthesis; Protein synthesis; Hepatocyte (Thomas, S.S. (1272) 37)

Glycosaminoglycan synthesis
Proteoglycan; Glycosaminoglycan; 3-Deoxy-D-galactose; D-Glucuronic acid analogue; Protein synthesis; Hepatocyte (Thomas, S.S. (1272) 37)

Glycosidase
Glucosidase; Slow, tight-binding inhibitor; Trehalase; Trehazolin (Ando, O. (1244) 295)

Glycosome
Dihydroxyacetone phosphate acyltransferase; Alkyl-dihydroxyacetone phosphate synthase; Microbody; Subcellular localization; (*T. brucei*) (Zomer, A.W.M. (1257) 167)

Glycosphingolipid
Ganglioside; Liposome; Freeze-etch; Electron microscopy (Palestini, P. (1235) 221)

Radiolabel; Acetylation (Rebbaa, A. (1244) 418)

Blood group; Intestine; (Rat) (Bouhours, D. (1255) 131)

Cestode; Ceramide; Free ceramide; (*E. multilocularis*) (Persat, F. (1255) 280)

Glycosphingolipid, lyso-
Dimethylsphingosine; NMR, ^{2}H- (Rigby, A.C. (1240) 75)

Glycosylation
Fucoprotein; Fucosylation; Intestine; Development; Weaning (Lenoir, D. (1234) 29)

11β-Hydroxysteroid dehydrogenase; Alcohol dehydrogenase, short chain; Site-directed mutagenesis (Agarwal, A.K. (1248) 70)

Glycation; Glyceraldehyde-3-phosphate dehydrogenase; Denaturation; Conformation (He, R.-Q. (1253) 47)

Lipoprotein lipase; Dimerization; Heparin affinity (Park, J.-W. (1254) 45)

Hutchinson-Gilford disease; Progeria; Aging; Fibroblast; Lectin (Clark, M.A. (1270) 142)

***N*-Glycosylation**
ALG7 gene; mRNA; GPT activity (Kukuruzinska, M.A. (1247) 51)

Carbohydrate structure; Glycoprotein; Alloalbumin; Disulfide bond (Sakamoto, Y. (1252) 209)

Glycosyl-phosphatidyl-anchored protein
Neutrophil; Cell stimulation; Exocytosis; Detergent (Cain, T.J. (1235) 69)

Glycosyltransferase
Lymphocyte, B-; Differentiation; Carbohydrate antigen; Gb3/CD77 (Taga, S. (1254) 56)

Glyoxysome
Enoyl-CoA hydratase; Enoyl-CoA isomerase; Fatty acid degradation; 3-Hydroxyacyl-CoA epimerase; 3-Hydroxyacyl-CoA dehydrogenase (Gühnemann-Schäfer, K. (1256) 181)

GM1 ganglioside
β_1-Adrenergic receptor; Modulation of β-adrenergic receptor by GM1; cyclic AMP formation; Baculovirus; Sf9 cell (Saito, M. (1267) 1)

cGMP
Nitric oxide; *S*-Nitrosylation; Advanced glycosylation end products (AGE); Glutathione; Lymphocyte proliferation; Glucose transport; (Human) (Farkas, J. (1245) 305)

Golgi apparatus
Endoplasmic reticulum; Retinol; Retinol-binding protein; 55 kDa protein; Vitamin A (Paulik, M. (1266) 273)

Ceruloplasmin; Copper; (LEC rat) (Terada, K. (1270) 58)

Golgi system
Endoplasmic reticulum; Subfractionation; Ubiquinone biosynthesis (Teclebrhan, H. (1256) 157)

Gonadotropin
Secondary structure prediction; Amino-acid substitution tables; Thyrotropin; Luteinizing hormone (Wako, H. (1247) 104)

GPI
Cell wall; Mannoproteins; Calcofluor white hypersensitive (Vossen, J.H. (1243) 549)

GPI anchor
PIG-A; GlcNAc-PI; PNH (Yu, J. (1255) 344)

ppGpp
rRNA synthesis; Bacterium; Growth rate control; (*E. coli*) (Bremer, H. (1262) 15)

gp91-phox
NADPH oxidase; Interleukin-4; Macrophage; (Swine) (Zhou, Y. (1265) 40)

G protein
Protein kinase A; Protein kinase C; cAMP; Gene regulation; (Sertoli cell) (Taskén, K.A. (1260) 269)

Prostaglandin; Signal transduction (Schwaner, I. (1265) 8)

Ethanol; Somatostatin receptor; Adenylyl cyclase (Alvaro-Alonso, I. (1268) 115)

Myoblast; 1,25-Dihydroxyvitamin D_3; Calcium ion uptake; cyclic AMP; Signal transduction (Vazquez, G. (1269) 91)

HeLa cell; 8-Methoxypsoralen; Khellin; Adenylyl cyclase (Di Stefano, A. (1269) 162)

G protein-coupled phospholipase C
Endothelial cell; Ancrod-generated fibrin; $\alpha_v\beta_3$ Integrin; Cell morphology (Chang, M.-C. (1269) 115)

G protein-coupled receptor
Seven-transmembrane domain receptor; Transmembrane domain; Gene cloning; (*Oryzias latipes*) (Yasuoka, A. (1235) 467)

GPT activity
N-glycosylation; *ALG7* gene; mRNA (Kukuruzinska, M.A. (1247) 51)

Gradient loading
Vesicle; Microreactor; Phase transition; Drug encapsulation; Stability; Intraliposomal precipitation; Doxorubicin gel (Lasic, D.D. (1239) 145)

Gramicidin
Peptide; Lipid; Membrane; Protein folding (Jaikaran, D.C.J. (1234) 133)

Gramicidin A, C-13 labeled
Dodecylphosphocholine micelle; Ionic titration; Circular dichroism (Jing, N. (1238) 1)

Gram-negative bacterium
Phospholipid; Fatty acid; Plasmid; Growth temperature; (*Y. pseudotuberculosis*) (Krasikova, I.N. (1257) 118)

Grana margin
Chloroplast; Light harvesting complex II; Photosystem; Partitioning; Aqueous polymer; Ferredoxin:NADP oxidoreductase; (Spinach thylakoid) (Wollenberger, L. (1230) 10)

Thylakoid membrane organization; Membrane domain; Protein phosphorylation; Aqueous two-phase partitioning; LHC II protein kinase (Stefánsson, H. (1231) 323)

Granulocyte-macrophage colony-stimulating factor
Herbimycin A; 19-Allylaminoherbimycin A; Glutathione; Growth inhibition; U937 cell (Makishima, M. (1272) 199)

Granulosa-luteal cell
Choriocarcinoma; 14,15-Epoxyicosatrienoic acid; Epoxygenase; (Placenta) (Zosmer, A. (1258) 234)

GroEL
GroES; Chaperone protein; Carbonic anhydrase II; Amino-terminal truncation; Protein engineering; (Human) (Persson, M. (1247) 195)

Chaperonin; GroES; Chaperonin assembly; Protein folding; Chaperonin monomer (Mendoza, J.A. (1247) 209)

Chaperone Cpn60; Affinity chromatography; Urea-induced monomerization; (*E. coli*) (Blennow, A. (1252) 69)

GroES
GroEL; Chaperone protein; Carbonic anhydrase II; Amino-terminal truncation; Protein engineering; (Human) (Persson, M. (1247) 195)

Chaperonin; GroEL; Chaperonin assembly; Protein folding; Chaperonin monomer (Mendoza, J.A. (1247) 209)

Group I intron
Fungus; Ascomycete; ribosomal RNA (Egger, K.N. (1261) 275)

Group-transfer pathway
Control coefficient; Inhibitor analysis; Metabolic control analysis (Kholodenko, B.N. (1229) 275)

Growth
Atherosclerosis; Cell division; Platelet-derived growth factor; Lipoprotein; Arterial smooth muscle cell; Fibroblast (Björkerud, S. (1268) 237)

Growth control
Cyclin; Embryogenesis; (Zebrafish) (Yarden, A. (1264) 257)

Growth curve
Dielectric relaxation; Permittivity; Interfacial polarization; Cell concentration; (*S. cerevisiae*) (Asami, K. (1245) 99)

Dielectric relaxation; Permittivity; Interfacial polarization; Non-spherical cell; Synchronized culture (Asami, K. (1245) 317)

Growth factor
Angiogenesis; Cytokine; Mutant; Vascular permeability factor; (Endothelium) (Claffey, K.P. (1246) 1)

Fibroblast growth factor, bFGF; PC12 cell; (*E. coli*) (Kroiher, M. (1250) 29)

Growth factor signalling
Protein tyrosine phosphatase; Mitogen-activated protein kinase (Keyse, S.M. (1265) 152)

Growth hormone
pH; Denaturation; Intermediate; Protein folding; Self-association; (Human) (DeFelippis, M.R. (1247) 35)

Beta-Oxidation; Polyunsaturated fatty acid; Rate-limiting step; 2,4-Dienoyl-CoA reductase (Nada, M.A. (1255) 244)

Acyl-CoA oxidation; Thyroid hormone; Clofibrate; ω-Hydroxydodecanoic acid; Hepatocyte culture (Sato, T. (1256) 327)

Growth inhibition
Herbimycin A; 19-Allylaminoherbimycin A; Glutathione; Granulocyte-macrophage colony-stimulating factor; U937 cell (Makishima, M. (1272) 199)

Growth rate control.
ppGpp; rRNA synthesis; Bacterium; (*E. coli*) (Bremer, H. (1262) 15)

Growth temperature
Gram-negative bacterium; Phospholipid; Fatty acid; Plasmid; (*Y. pseudotuberculosis*) (Krasikova, I.N. (1257) 118)

GSH
GSSG; Glutathione-protein mixed disulfide; Protein sulphydryl groups; NADPH; Oxidative stress (Rossi, R. (1243) 230)

GSSG
GSH; Glutathione-protein mixed disulfide; Protein sulphydryl groups; NADPH; Oxidative stress (Rossi, R. (1243) 230)

GTPase
Srp; Signal recognition; Mutant (Samuelsson, T. (1267) 83)

GTPase, small
Rab7; Nucleotide sequence (Vitelli, R. (1264) 268)

Periodontal ligament fibroblast; Mechanical stretching; Mechanotransduction; Rho; Rab (Basdra, E.K. (1268) 209)

GTP binding protein
Adrenal cortex; Mitochondrion; Photoaffinity labeling; Cholesterol (Thomson, M. (1248) 159)

Myoblast; Vitamin D-3, 1,25$(OH)_2$; Phospholipase A_2; Arachidonic acid; Signal transduction (De Boland, A.R. (1257) 274)

Prostanoid; Arachidonic acid; Rhodopsin-type receptor; Alternative splicing (Negishi, M. (1259) 109)

Rat submandibular gland; Mucin secretion; Desensitization; ADP-ribosylation; Phosphorylation; cyclic AMP-dependent protein kinase (Ishikawa, Y. (1265) 173)

GTP biosynthesis
Purine nucleotide/insulin secretion; ATP biosynthesis; (Rat pancreatic islet) (Meredith, M. (1266) 16)

Guanidine hydrochloride
Active site; Conformational change; Creatine kinase; Denaturation; Spin labeling (Liu, Z.-J. (1253) 63)

Guanidinoacetate methyltransferase
Creatine biosynthesis; cDNA; Deficiency; (Human) (Isbrandt, D. (1264) 265)

β-Guanidinopropionic acid
Skeletal muscle; Muscle contraction; Mitochondrion; Mitochondrial biogenesis; Oxidative phosphorylation (Freyssenet, D. (1228) 211)

Brown adipose tissue; Creatine depletion; Hyperplasia; Nonshivering thermogenesis; Uncoupling protein (Yamashita, H. (1230) 69)

Guanine nucleotide binding protein
Prenylcysteine; Rab exocytotic effector protein; HIT-T15 cell (Regazzi, R. (1268) 269)

Guanylate cyclase C
Guanylin; GCAP-II; cDNA sequence; (Human colon) (Hill, O. (1253) 146)

Guanylin
Guanylate cyclase C; GCAP-II; cDNA sequence; (Human colon) (Hill, O. (1253) 146)

Guanylyl cyclase C
Enterotoxin, heat-stable; Internalization; T84 human colon carcinoma cell; ST receptor; (*E. coli*) (Urbanski, R. (1245) 29)

Gunn rat
Bilirubin; Reactive-Oxygen Species; Antioxidant; Lipid-peroxidation (Joshi, M. (1243) 244)

GUS assay
Transcription factor; Gal4 DNA-binding domain; Histone H3 gene; BY-2 cell; (Wheat); (Tobacco) (Nakayama, T. (1263) 281)

H

Haber–Weiss reaction
Iron uptake; Hydroxyl radical; Iron; Transferrin (Richardson, D.R. (1269) 105)

Haemin
CaM PKIII; Elongation factor 2; Phosphorylation (Nilsson, A. (1260) 200)

HA2 influenza virus hemagglutinin
Ethidium bromide; Melittin; Fusogenic peptide (Midoux, P. (1239) 249)

Hairpin oligonucleotide phosphorothioate
2′-Methoxynucleoside; Exonuclease resistance; Synthetic oligonucleotide; Hairpin structure; T_m value; RNAase H activity (Hosono, K. (1244) 339)

Hairpin structure
Hairpin oligonucleotide phosphorothioate; 2′-Methoxynucleoside; Exonuclease resistance; Synthetic oligonucleotide; T_m value; RNAase H activity (Hosono, K. (1244) 339)

Haloalkalophile
Phototaxis; Halobacterium; Archaebacterium; Phoborhodopsin; (*N. pharaonis*) (Tomioka, H. (1234) 261)

Halobacterium
Phototaxis; Haloalkalophile; Archaebacterium; Phoborhodopsin; (*N. pharaonis*) (Tomioka, H. (1234) 261)

Halorhodopsin; Pharaonis halorhodopsin; Bacteriorhodopsin; Anion pump (Otomo, J. (1240) 248)

Haloperoxidase, non-heme
Catalytic triad; Esterase; Serine hydrolase; Dehalogenase; Site-directed mutagenesis; (*S. aureofaciens*); (*P. fluorescens*); (*P. pyrrocinia*) (Pelletier, I. (1250) 149)

Halorhodopsin
Pharaonis halorhodopsin; Bacteriorhodopsin; Halobacterium; Anion pump (Otomo, J. (1240) 248)

Halothane distribution
NMR, ^{19}F-; Pharmacokinetics; Volatile anesthetic; (Rabbit brain) (Venkatasubramanian, P.N. (1245) 262)

***hapP* gene**
Gene sequence; (*Physarum*) (Lépine, G. (1264) 271)

Harmaline
Glutamate transport; Sodium ion dependence; Kinetics; Red blood cell; (HK dog) (Fujise, H. (1239) 22)

H-89 (cyclic AMP-dependent protein kinase inhibitor)
Chloroquine diphosphate; Cholesteryl ester hydrolytic activity; cyclic AMP-dependent protein kinase; Iloprost; Phospholipid; 2′,5′ Dideoxyadenosine; Platelet (Barre, D.E. (1254) 180)

H/D exchange
Photosystem II; Oxygen evolution; FTIR; Carboxylate; Hydrogen bond (Noguchi, T. (1232) 59)

HDL
VLDL; LDL; Albumin; Centrifugal field; Table-top ultracentrifuge (Pietzsch, J. (1254) 77)

Lipid peroxidation; γ-Radiolysis; Oxygenated free radical; Fluorescence polarization; Cholesterol efflux; Atherosclerosis (Bonnefont-Rousselot, D. (1255) 23)

LDL; Copper-mediated oxidation; Lp A-I; Lp A-I:AII; Albumin (Decossin, C. (1255) 31)

Macrophage; Apolipoprotein A-I; Apolipoprotein A-II; Cholesterol efflux (Skarlatos, S.I. (1270) 19)

LDL; Cholesteryl ester; Selective uptake; Fibroblast; HepG2 cell; J774 macrophage (Rinninger, F. (1255) 141)

Apolipoprotein A-I; Amphipathic helix; Protein–lipid interaction; Reconstituted lipoprotein; Mutant apo A-I (Brouillette, C.G. (1256) 103)

Reverse cholesterol transport; Cholesterol efflux; LDL; HDL, preβ; Lipoprotein secretion; HepG2 cell; Fibroblast; (Human) (Sviridov, D. (1256) 210)

Apo A-I; Cholesteryl ester transfer protein; Lecithin:cholesterol acyltransferase (Liang, H.-Q. (1257) 31)

Phospholipid transfer protein; PLTP, human; PLTP cDNA, mouse; Protein expression; rPLTP; HDL interconversion (Albers, J.J. (1258) 27)

Cholesterol efflux; Smooth muscle cell; Macrophage; Erythrocyte; Apolipoprotein A-I (Li, Q. (1259) 227)

HDL binding
VLDL secretion rate; VLDL composition; Sucrose; Starch; (Guinea pig) (Fernandez, M.L. (1256) 31)

HDL cholesterol
Human CETP; CETP; Transgenic mice; Lipoprotein; HDL particle size; HDL_1 (Dinchuk, J. (1255) 301)

HDL conversion
LCAT; CETP; PLTP (Pulcini, T. (1254) 13)

HDL interconversion
Phospholipid transfer protein; PLTP, human; PLTP cDNA, mouse; HDL; Protein expression; rPLTP (Albers, J.J. (1258) 27)

HDL particle size
Human CETP; CETP; Transgenic mice; Lipoprotein; HDL cholesterol; HDL_1 (Dinchuk, J. (1255) 301)

HDL, preβ
Reverse cholesterol transport; Cholesterol efflux; HDL; LDL; Lipoprotein secretion; HepG2 cell; Fibroblast; (Human) (Sviridov, D. (1256) 210)

HDL_1
Cystine diet; Hepatic lipase; Lipoprotein lipase; Gene expression; (Rat) (Benhizia, F. (1255) 50)

Human CETP; CETP; Transgenic mice; Lipoprotein; HDL cholesterol; HDL particle size (Dinchuk, J. (1255) 301)

Headgroup composition
Lipid bilayer; Spontaneous curvature; Acyl chain composition; Nonlamellar phase; (*A. laidlawii*) (Österberg, F. (1257) 18)

Head group specificity
Malate dehydrogenase; Phospholipid; Phosphatidylethanolamine; Bilayer; (*Mycobacterium smegmatis*) (Imai, T. (1246) 189)

Heart
Tricarboxylic acid cycle; Aspartate aminotransferase; ^{13}C-NMR; (Rat) (Weiss, R.G. (1243) 543)

Adenosine; Adenylate metabolism; Enzymology; (Rat); (Human) (Tavenier, M. (1244) 351)

Cardiolipin biosynthesis; Phosphatidylglycerol (Cao, S.G. (1256) 97)

EPA; Carnitine palmitoyltransferase; Lipid droplet; Morphometry (Hexeberg, S. (1256) 341)

Mitochondrion; Dihydrolipoic acid; α-Lipoic acid; Superoxide radical; Ubisemiquinone (Schönheit, K. (1271) 335)

Mitochondrion; Ischemia; Control coefficient (Borutaite, V. (1272) 154)

Heart cell
Pivaloylcarnitine; Formation; (Rat) (Diep, Q.N. (1259) 161)

Heat shock
Membrane fluidity; Fluorescence; (*E. coli*) (Mejía, R. (1239) 195)

cDNA; DnaJ; Sis1; (*S. pombe*) (Park, S.-K. (1262) 87)

Promoter; CAT assay; Hsp70 gene; (*S. mansoni*) (Levy-Holtzman, R. (1263) 96)

Crystallin; Gene; Promoter; Evolution; Stress (Wistow, G. (1263) 105)

Extracellular signal-regulated kinase (erk); Okadaic acid; Signal transduction; Tetradecanoylphorbol acetate; HeLa cell (Heider, H. (1265) 196)

Heat shock protein; HSP70; FM3A cell; ts85 cell (Hatayama, T. (1269) 243)

Heat shock factor
Heat shock gene; Promoter; Gel retardation assay; Subsite of active site; (*S. mansoni*) (Levy-Holtzman, R. (1264) 134)

Heat shock gene
Promoter; Heat shock factor; Gel retardation assay; Subsite of active site; (*S. mansoni*) (Levy-Holtzman, R. (1264) 134)

Heat shock protein
Fibronectin; Heparin; Heparan sulfate (Hansen, L.K. (1252) 135)

Calorimetry; Structure homology (Dudich, I.V. (1253) 163)

Heat shock; HSP70; FM3A cell; ts85 cell (Hatayama, T. (1269) 243)

Heat stable enterotoxin
Inositol trisphosphate; Calcium ion, intracellular concentration; Epithelial cell (Chaudhuri, A.G. (1267) 131)

Heat stress
Trehalose; Trehalase; Glycolysis; (*Neurospora crassa*) (Bonini, B.M. (1245) 339)

Heavy meromyosin
Actin filament; Motility assay, in vitro; ATP; Energy production, unexplained (Kellermayer, M.S.Z. (1229) 89)

Heavy metal modulation
Intercellular adhesion molecule; Gene expression; (Human) (Martinotti, S. (1261) 107)

HeLa
Glutamate transport; Kinetics; Regulation (Igo, Jr., R.P. (1233) 153)

HeLa cell
Diarylsulfonylurea; Sulfonylurea; Antitumor drug; NADH oxidase; Plasma membrane; Hepatoma; (Rat liver) (Morré, D.J. (1240) 11)

NADH oxidase activity; Inhibition; Sulfonylurea; Antitumor drug; Plasma membrane (Morré, D.J. (1240) 201)

Diarylsulfonylurea; Sulfonylurea; Antitumor drug; Binding protein (Morré, D.J. (1244) 133)

Nucleophosmin/B23 (NPM) oligomer; Oligomer (Chan, P.K. (1262) 37)

Extracellular signal-regulated kinase (erk); Okadaic acid; Signal transduction; Tetradecanoylphorbol acetate; Heat shock (Heider, H. (1265) 196)

G-protein; 8-Methoxypsoralen; Khellin; Adenylyl cyclase (Di Stefano, A. (1269) 162)

α-Helical bundle
Interleukin-6; Multidimensional NMR; NMR; Resonance assignment; Cytokine structure (Morton, C.J. (1249) 189)

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Helix-coil transition
Transition temperature; Poly[d(A-T)]; Pressure dependence; Cation (Najaf-Zadeh, R. (1262) 52)

Helminthic enzyme
Thymidylate synthase; dUMP analogue; Methylenetetrahydrofolate analogue; Enzyme inhibition; (*H. diminuta*) (Cieśla, J. (1249) 127)

Hemagglutination reaction
Phospholipid/ganglioside-binding protein; (Rabbit serum) (Hosomi, O. (1259) 18)

Hemagglutinin
Toxic phytoplankton (Ahmed, Md.S. (1243) 509)

Hematopoiesis
Platelet-activating factor; Bone marrow; (Human) (Denizot, Y. (1265) 55)

Heme
Cytochrome *b*-559; D1-D2 cytochrome *b*-559 complex; Photosystem II; EPR (Shuvalov, V.A. (1228) 175)

Erythrocyte; Calmodulin; ATPase, Ca^{2+}-; Melittin (Zaidi, A. (1236) 114)

Heme binding domain
Hemopexin; EPR; MCD; NMR (Cox, M.C. (1253) 215)

Heme-insertion isomer
Temperature; Heme reorientation; Myoglobin (Yee, S. (1252) 295)

Heme methyl proton hyperfine shift
NMR, ^{1}H-; EPR; Myoglobin; Distal residue (Yamamoto, Y. (1248) 149)

Heme protein
NMR, ^{13}C-; Ligand orientation; (*D. vulgaris*) (Turner, D.L. (1246) 24)

Heme reorientation
Temperature; Myoglobin; Heme-insertion isomer (Yee, S. (1252) 295)

Hemin
LDL; Erythrocyte membrane; Albumin; Oxidation (Miller, Y.I. (1272) 119)

Hemocyte
Adhesion; Adenosine; Caffeine; Phagocyte; Inhibition; (Mussel) (Chen, J.-H. (1268) 178)

Hemoglobin
Hemoglobin variant; Oxygen affinity; Allostery; (Human) (Kister, J. (1246) 34)

Intermediate structure; Structure alteration; Ligand binding; Quaternary structure (Arata, Y. (1247) 24)

Blood substitute; Polymerization; Oxidation–reduction; Kinetics (Rogers, M.S. (1248) 135)

Aggregation; Oxygen binding; Chloride effect; Carbon dioxide effect; Bohr effect; Cyclostome; (Hagfish); (*M. glutinosa*) (Fago, A. (1249) 109)

Protein entrapment; Polysiloxane copolymer; Polymer imprinting; Myoglobin (Venton, D.L. (1250) 126)

Chlorocruorin; cDNA sequence; Primary structure; (*Sabellastarte indica*) (Suzuki, T. (1252) 189)

Gene structure; Intron; Evolution; Ciliated protist (Yamauchi, K. (1264) 53)

Hemoglobin variant
Hemoglobin; Oxygen affinity; Allostery; (Human) (Kister, J. (1246) 34)

Hemolysin III
Cloning; Sequencing; (*B. cereus*) (Baida, G.E. (1264) 151)

Hemolysis
Dehydration; Rehydration; Melittin; Divalent cation; Membrane lesion (Rudenko, S.V. (1235) 1)

δ-Toxin; Ion channel; Amphipathic helix; Channel-forming peptide (Kerr, I.D. (1236) 219)

Ion channel; Phospholipid bilayer; Monoclonal antibody; Erythrocyte ghost; Epitope mapping (Menestrina, G. (1238) 72)

Electropermeabilization; Erythrocyte membrane; Shape; Size distribution; Electrohemolysis; (Human) (Turcu, I. (1238) 81)

Amphotericin B; Aromatic polyene antibiotic; Antibiotic; Vacidin A; Erythrocyte; Ionic selectivity (Cybulska, B. (1240) 167)

Hemopeptide
Complexation reaction; Secondary ordered structure; Electron-transfer process (Santucci, R. (1250) 183)

Hemopexin
Heme binding domain; EPR; MCD; NMR (Cox, M.C. (1253) 215)

Hemophilia B
NMR; CD; Blood clotting protein; Factor IX; Propeptide; Solution conformation (Cheng, J.-W. (1245) 227)

Hemoprotein
Cytochrome *P*-450; Electron transfer; Photoreduction; Detergent (Nakano, R. (1252) 245)

Hemorrhagic metalloproteinase
Substrate specificity; Snake venom; (*B. arietans*) (Yamakawa, Y. (1247) 17)

Hemorrhagic principle
Snake venom; (*B. arietans*) (Omori-Satoh, T. (1246) 61)

Heparan sulfate
Endothelial cell; (Bovine) (Hiscock, D.R.R. (1244) 104)

Fibronectin; Heat-shock protein; Heparin (Hansen, L.K. (1252) 135)

Proteoglycan; Glycosaminoglycan; Endothelial cell (Pye, D.A. (1266) 235)

Heparin
Glycosaminoglycan; Chondroitin sulfate; Human plasma (Volpi, N. (1243) 49)

Fibronectin; Heat-shock protein; Heparan sulfate (Hansen, L.K. (1252) 135)

Macrophage; Acetyl-LDL; ACAT (Yoshinari, M. (1259) 155)

Chymase; Mast cell proteinase; Mast cell granule; Enzyme regulation (McEuen, A.R. (1267) 115)

Heparin affinity
Lipoprotein lipase; Glycosylation; Dimerization (Park, J.-W. (1254) 45)

Heparin-affinity chromatography
Recombinant DNA; Transfer vector; Translational initiation; Insect cell; T7 expression system; Mitogen (Hills, D. (1260) 14)

Heparin-binding
Hypobetalipoproteinemia; Cholesterol; Immunoblotting; (McA-RH7777 cell) (McCormick, S.P.A. (1258) 49)

Heparin-binding growth factor
Amphiregulin; Epidermal growth factor receptor (Adam, R. (1266) 83)

Heparin dependence
Fibroblast growth factor (Imamura, T. (1266) 124)

Heparin domain
Acetylcholinesterase, asymmetric; Protamine; Extracellular matrix; Neuromuscular junction (Deprez, P.N. (1252) 53)

Hepatic cholesterol synthesis
Soluble fiber; Dietary cholesterol; LDL production; LDL receptor (Turley, S.D. (1255) 177)

Hepatic lipase
Cystine diet; Lipoprotein lipase; HDL_1; Gene expression; (Rat) (Benhizia, F. (1255) 50)

Lipoprotein lipase; Apolipoprotein C-II; Evolution (Lindberg, A. (1255) 205)

Lipoprotein; Lipoprotein lipase; Lactoferrin; Chylomicron; Remnant; Liver; Cholesterol; Hepatocyte; Phospholipase A_1; (Transgenic mouse) (Chang, S. (1256) 81)

Hepatitis B surface antigen
Reconstitution; Acidic phospholipid; Antigenicity (Gómez-Gutiérrez, J. (1233) 205)

Hepatocyte
Volume; Osmolarity; Energetics; Cellular respiration (Espie, P. (1230) 139)

Ketogenesis; Gluconeogenesis; (Rat) (Henly, D.C. (1244) 92)

Gluconeogenesis; Ethanol oxidation; Redox state; Asparagine; Ammonia; (Rat) (Efthivoulou, M.-A. (1244) 303)

Plasma factor XIII; Biosynthesis; Plasma complex A_2B_2 (Kaczmarek, E. (1247) 127)

VLDL; Triacylglycerol; Cholesteryl ester; Cholesterol; Primary culture; (Hamster) (Hoang, V.-Q. (1254) 37)

HepG2 cell; Cholesteryl oleate; Triolein; Emulsion; Apo E (Quarfordt, S.H. (1255) 82)

Lipoprotein; Lipoprotein lipase; Lactoferrin; Chylomicron; Remnant; Liver; Cholesterol; Hepatic lipase; Phospholipase A_1; (Transgenic mouse) (Chang, S. (1256) 81)

Okadaic acid; Cholesterol ester hydrolase; Phosphatase; (Rat) (Martinez, M.J. (1258) 90)

VLDL; Endoplasmic reticulum; (Rat) (Fast, D.G. (1258) 159)

Progesterone; Cell membrane potential; K^+-Conductance (Waldegger, S. (1266) 186)

Calcium inflow; Magnesium inflow; Vasopressin; Thapsigargin; Lanthanide ion; (Rat) (Fernando, K.C. (1268) 97)

Xanthine oxidase; Ischemia; Reperfusion; Endothelium; (Rat); (Liver) (Hamer, I. (1269) 145)

Hypoxia; Cytotoxicity; Reductive stress; (Rat liver) (Khan, S. (1269) 153)

DNA repair; Gene expression; MGMT; MPG; (Rat) (Grombacher, T. (1270) 63)

Proteoglycan; Glycosaminoglycan; 3-Deoxy-D-galactose; D-Glucuronic acid analogue; Glycosaminoglycan synthesis; Protein synthesis (Thomas, S.S. (1272) 37)

Hepatocyte culture
Acyl-CoA oxidation; Growth hormone; Thyroid hormone; Clofibrate; ω-Hydroxydodecanoic acid (Sato, T. (1256) 327)

Hepatocyte growth factor
Stimulation-secretion coupling; Flow culture system; Interleukin-1α; Embryonic lung fibroblast; (Human) (Shimizu, M. (1244) 357)

Hepatocyte nuclear factor 4
Isoform; Differential splicing; Splice donor site; (Mouse liver) (Hata, S. (1260) 55)

Hepatocyte (rat)
Glycogen synthesis; Gluconeogenesis; Lactate (Tosh, D. (1268) 165)

Hepatoma
Diarylsulfonylurea; Sulfonylurea; Antitumor drug; NADH oxidase; Plasma membrane; HeLa cell; (Rat liver) (Morré, D.J. (1240) 11)

Isogloboside; Blood group B-active glycolipid; LEC rat; Neutral glycolipid (Ariga, T. (1254) 257)

Hepatotoxicity
Diclofenac; Immunochemistry; Anti-inflammatory drug; Histocompatibility; (Human); (Rat) (Gil, M.L. (1272) 140)

HepG2 cell
Hepatocyte; Cholesteryl oleate; Triolein; Emulsion; Apo E (Quarfordt, S.H. (1255) 82)

LDL; HDL; Cholesteryl ester; Selective uptake; Fibroblast; J774 macrophage (Rinninger, F. (1255) 141)

Lecithin:cholesterol acyltransferase; Apo A-I; Liver; TGF-β; IL-6; Regulation; mRNA; Dexamethasone (Skretting, G. (1255) 267)

Reverse cholesterol transport; Cholesterol efflux; HDL; LDL; HDL, preβ; Lipoprotein secretion; Fibroblast; (Human) (Sviridov, D. (1256) 210)

Atherosclerosis; Reverse cholesterol transport; Cholesterol efflux; Cholesterol uptake; Smooth muscle cell; Macrophage (Stein, O. (1257) 174)

Apolipoprotein B; Degradation; Endoplasmic reticulum (Sallach, S.M. (1265) 29)

Herbicide
Photosystem II; D1 protein; Protein degradation; Photoinhibition (Nakajima, Y. (1230) 38)

Chlorsulfuron; Auxin; NADH oxidase; Plasma membrane; Plant growth; (Soybean) (Morré, D.J. (1240) 5)

Herbicide resistance
Auxin; Calcium; ATP; Light scattering; Protoplast (Deshpande, S. (1244) 69)

Herbicide toxicity
Paraquat; Mitochondrion; Superoxide (Palmeira, C.M. (1229) 187)

Herbimycin A
19-Allylaminoherbimycin A; Glutathione; Granulocyte-macrophage colony-stimulating factor; Growth inhibition; U937 cell (Makishima, M. (1272) 199)

HETE
Fish oil; Atherosclerosis; Leukotriene; Prostaglandin; Cholesterol (Surette, M.E. (1255) 185)

12(*S*)-HETE
Receptor; Localization (Herbertsson, H. (1244) 191)

15-HETE
Binding; RBL-1 cell; Subcellular; Lipoxygenase (Kang, L.-T. (1256) 297)

Heterogeneity
Phytochrome; Excited state; Fluorescence; Photochemistry; Intermediate; Dark reaction (Sineshchekov, V.A. (1228) 125)

Electroporation; Molecular transport; Subpopulation; Flow cytometry; (Yeast) (Gift, E.A. (1234) 52)

Heterogeneous binding
Biological recognition; Histidine; Metal affinity chromatography; Copper iminodiacetic acid (Johnson, R.D. (1247) 293)

Heterogeneous chromophore
Calycin superfamily; Ligand-binding protein (Calero, M. (1249) 91)

Heterologous expression
Cytochrome *P*-450 2B5; Catalytic activity; (Microsome) (Lehnerer, M. (1245) 106)

Ribosome structure; Acidic ribosomal phosphoprotein; (*S. cerevisiae*); (*D. discoideum*) (Bermejo, B. (1263) 45)

Heteroplasm
Kearns-Sayre syndrome; Mutation; Deletion; Recombination (Vázquez-Acevedo, M. (1271) 363)

Heteroplasmy
Mitochondrial encephalomyopathy; mtDNA; NARP mutation; ATP synthase; F_o-subunit (Houštěk, J. (1271) 349)

Hexadecanoate
Beta oxidation; Peroxisome; L-Carnitine; Acetyl-CoA; Coenzyme A (Sleboda, J. (1258) 309)

Hexagonal II phase transition
Sterol; Acylated steryl glucoside; Lipid hydration; Lipid phase behavior; Freezing; (Plasma membrane) (Webb, M.S. (1239) 226)

Hexammineruthenium(III)
NADH dehydrogenase; Assay condition; Flavoprotein; Electron transfer; Steady-state kinetics; (Bovine heart mitochondria) (Gavrikova, E.V. (1230) 23)

Hexanol
Chlorosome; Energy transfer; Ultrastructure; Photosynthesis; Atomic force microscopy; Bacteriochlorophyll (Zhu, Y. (1232) 197)

Hexitol-lysine antibody
Glycated protein; Glycation; Tissue distribution; Diabetes (Myint, T. (1272) 73)

Hexokinase
Porin; VDAC; Triton; Polyanion; Contact point (Báthori, G. (1234) 249)

Glucokinase; Enzyme kinetics; Phosphate activation; (*Z. mobilis*) (Scopes, R.K. (1249) 173)

Actin; Contractile activity; Enzyme binding; Glycolysis; Low-frequency stimulation; Mitochondrion; Phosphofructokinase; Skeletal muscle (Parra, J. (1251) 154)

β-Hexosaminidase A
Tay-Sachs disease; β-Hexosaminidase α chain mutation (Ribeiro, M.G. (1270) 44)

β-Hexosaminidase α chain mutation
Tay-Sachs disease; β-Hexosaminidase A (Ribeiro, M.G. (1270) 44)

HGF/SF
c-*met*; Tyrosine-kinase receptor; Oncogenic activation; Rearrangement; cDNA cloning; cDNA sequencing (Wicker, R. (1264) 254)

High affinity transporter
Proton/peptide cotransporter; PEPT 2; Chromosomal localization; (Human kidney) (Ramamoorthy, S. (1240) 1)

High-energy phosphate
NMR, ^{31}P-; Preconditioning; Purine; Adenosine (Bradamante, S. (1243) 1)

Higher order structure
Histone H1 subtype; Chromatin reconstitution; Transcriptionally competent chromatin (Nagaraja, S. (1260) 207)

Higher plant invertase
Invertase; Fructofuranosidase; Fungal invertase; (*P. sanguineus*) (Quiroga, E.N. (1251) 75)

High level expression
Thymidylate synthase; cDNA sequence; Amino acid sequence; Cloning; (Rat) (Cieśla, J. (1261) 233)

High mobility group box
Alternative splicing; T-cell; Transcription (Mayer, K. (1263) 169)

High pressure
L-Glutamate; Nitrous oxide; Ion channel; Anesthesia (Macdonald, A.G. (1236) 135)

High redox potential form
Cytochrome *b*-559; Photosystem II; Redox titration; Calcium; Thylakoid membrane (McNamara, V.P. (1231) 289)

Histamine
Calcium; Icosanoid; Mast cell; Protein tyrosine kinase; (Rat) (Van Haaster, C.M.C.J. (1265) 79)

Glucose transport; Endothelial cell; Insulin; GLUT1; GLUT4 (Thomas, J. (1268) 88)

Histamine-releasing activity
Neutrophil; Cationic peptide; Antibacterial activity; Modification; (Guinea-pig) (Yamashita, T. (1243) 295)

Histidine
Lysosome; Transport; Cysteine; Carrier protein; Diethyl pyrocarbonate (Pisoni, R.L. (1236) 23)

Biological recognition; Heterogeneous binding; Metal affinity chromatography; Copper iminodiacetic acid (Johnson, R.D. (1247) 293)

Histidine acetyltransferase
N^{α}-Acetyl-L-histidine (Yamada, S. (1245) 239)

Histidine decarboxylase
Sf9 cell; Mastocytoma; Pancreatic elastase; (Mouse); (Porcine) (Tanaka, S. (1253) 9)

Histidine mutation
Cyclomaltodextrin glucanotransferase; Site-directed mutagenesis; Enzyme kinetics; (*B. circulans* var. *alkalophilus*) (Mattsson, P. (1247) 97)

Histocompatibility
Diclofenac; Immunochemistry; Anti-inflammatory drug; Hepatotoxicity; (Human); (Rat) (Gil, M.L. (1272) 140)

Histone
Basic protein; Amino acid sequence; Embryogenesis; (*Tick*); (*Hyalomma dromedarii*) (Ibrahim, M.A. (1249) 79)

DNA renaturation; Single-stranded DNA (Fernandez-Busquets, X. (1260) 132)

Histone gene
CCAAT element; Promoter activity; recombinant DNA; Transient CAT assay (Takami, Y. (1264) 29)

Histone H3 gene
Transcription factor; Gal4 DNA-binding domain; GUS assay; BY-2 cell; (Wheat); (Tobacco) (Nakayama, T. (1263) 281)

Histone H1 subtype
Chromatin reconstitution; Higher order structure; Transcriptionally competent chromatin (Nagaraja, S. (1260) 207)

Histone primary structure
cDNA; Genomic organization; Gene expression; Wheat histone H2A (Huh, G.H. (1261) 155)

HIT-T15 cell
Prenylcysteine; Guanine nucleotide binding protein; Rab exocytic effector protein (Regazzi, R. (1268) 269)

HIV-1
Proteinase inhibitor; Mutation; Nucleic acid sequence; Proteinase-resistant strain (Yamaguchi, K. (1253) 136)

HIV
Fusion; Lysis; Erythrocyte; AIDS; HIV glycoprotein 41000 (gp41); Membrane; Red cell; Peptide; Melittin; Calcium ion (Mobley, P.W. (1271) 304)

LDL; CD4 lymphocyte; Monocyte (Juompan, L. (1272) 21)

HIV envelope glycoprotein
Dextran sulfate; Derivatized dextran (Carré, V. (1243) 175)

HIV-1 gene expression
MSS1; (*Xenopus* oocyte) (Nacken, W. (1261) 293)

HIV glycoprotein 41000 (gp41)
Fusion; Lysis; Erythrocyte; HIV; AIDS; Membrane; Red cell; Peptide; Melittin; Calcium ion (Mobley, P.W. (1271) 304)

HIV-1 proteinase
Hydroxyquinone; Alizarin; Competitive inhibition; anti-AIDS drug (Brinkworth, R.I. (1253) 5)

HIV type 1
Capsid protein p24; Secondary structure; Denaturant-induced unfolding (Misselwitz, R. (1250) 9)

HL-60
β-*N*-acetylhexosaminidase; Lysosome; Peptide antiserum (Martino, S. (1243) 489)

HL-60 cell
Cell differentiation; Retinoic acid; Thymus extract (Schulze-Forster, K. (1265) 110)

Superoxide; Okadaic acid; Dephosphorylation; Opsonized zymosan (Suzuki, K. (1266) 261)

Substance P; TNF-α; Priming; Tyrosine; Phosphorylation (Lloyds, D. (1267) 65)

Apoptosis; Sodium ion/hydrogen ion antiport; pH, intracellular; Phorbol 12-myristate 13-acetate; Dimethyl amiloride (Zhu, W.-H. (1269) 122)

HMG-CoA reductase
Progesterone; LDL; Intestinal epithelial cells, IEC-6; (Rat) (Sexton, R.C. (1255) 320)

27-Hydroxycholesterol; 25-Hydroxycholesterol; 7α-Hydroxylation; Fibroblasts; (Human) (Zhang, J. (1256) 353)

HMG-CoA reductase inhibitor
Lovastatin; Simvastatin; Pravastatin; Sterol synthesis; Transport; (Human cell) (Van Vliet, A.K. (1254) 105)

Fluvastatin sodium; LDL receptor; Plasma cholesterol; Cholesterol 7α-hydroxylase; (WHHL rabbit) (Kurokawa, J.-i. (1259) 99)

HMG-CoA synthase
Site-directed mutagenesis; Protein chemistry; Ketogenesis; Cholesterogenesis (Misra, I. (1247) 253)

Holocarboxylase synthetase deficiency
Molecular analysis; Single base deletion; Missense mutation; Biotin metabolism; (Human) (Aoki, Y. (1272) 168)

Homeobox
Homeodomain; Zinc finger; Differential splicing; (Chinook salmon); (Fish) (Gong, Z. (1260) 349)

Homeodomain
Homeobox; Zinc finger; Differential splicing; (Chinook salmon); (Fish) (Gong, Z. (1260) 349)

Homocysteine
Cysteine; Cysteinylglycine; Cell culture; Glutathione (Hultberg, B. (1269) 6)

Homologous recombination
Triple helix; Psoralen; SV40 shuttle vector (Sandor, Z. (1263) 235)

RecA; Triplex DNA; DNA–protein interaction (Kim, S.K. (1264) 129)

Homology
Protein kinase; Intron; Tandem repeat; (Dictyostelium discoideum) (Wetterauer, B.W. (1265) 97)

HOMO-LUMO energy
Polypeptide secondary structure; Interaction with cyanine; Band shifting, UV-Vis; Interaction energy; Molecular dynamics (Hermel, H. (1252) 79)

Hormone
Cultured hepatocyte; Long-term culture; Pyruvate; (Rat) (Tomita, Y. (1243) 329)

Horseradish peroxidase
Lactoperoxidase; Kinetics; Solvent effect (Sato, K. (1253) 94)

HPLC
Photosystem II; Reaction center; Chlorophyll; Pheophytin (Eijckelhoff, C. (1231) 21)

ATPase, H^+-; Adenine nucleotide; Binding site; Kinetics; ATP hydrolysis (Pezennec, S. (1231) 98)

Hydroxyl radical; Ischaemia-reperfusion; Salicylate hydroxylation; (Isolated perfused rat kidney) (Kadkhodaee, M. (1243) 169)

SH-reagent; Eosin-5-maleimide; *N*-Ethylmaleimide; Protein labeling (Majima, E. (1243) 336)

Aging; Mercaptalbumin; Nonmercaptalbumin; Redox state; Serum albumin; (Human) (Era, S. (1247) 12)

Gliadin; Coeliac disease; Immunoblotting (Rocher, A. (1247) 143)

Tyrosine kinase (Elberg, G. (1269) 299)

HPLC purification
Novobiocin; Ion channel (Feigin, A.M. (1234) 43)

HPLC, reverse-phase
Protein–lipid interaction; Colipase; Lipid binding; (Porcine pancreas) (Rugani, N. (1247) 185)

Hprt gene
Matrix associated region; Methylation; Alu repeat (Chong, S. (1264) 103)

α 2-HS glycoprotein
Glycoprotein; Jacalin; (Human) (To, W.Y. (1249) 58)

Hsp70
mRNA level; Protein level; (Bovine) (Gutierrez, J.A. (1260) 239)

Heat shock protein; Heat shock; FM3A cell; ts85 cell (Hatayama, T. (1269) 243)

Hsp70 gene
Promoter; CAT assay; Heat shock; (*S. mansoni*) (Levy-Holtzman, R. (1263) 96)

hst70 gene; Transgenic mouse; Testis-specific; (Brain) (Widłak, W. (1264) 191)

hst70 gene
hsp70 gene; Transgenic mouse; Testis-specific; (Brain) (Widłak, W. (1264) 191)

HTLV-I
Tax; Gene expression; (Mouse) (Nacken, W. (1261) 432)

HTR1
SMS1; Serine-rich transmembrane protein; (*S. cerevisiae*) (Takeuchi, J. (1260) 94)

STM1; *TOM1*; Multi-copy suppressor; (*S. cerevisiae*) (Utsugi, T. (1263) 285)

5-HT_{2A} receptor
cDNA sequence; (Pig); (Rhesus monkey) (Johnson, M.P. (1236) 201)

HU
Integration host factor; curved DNA; DNA bending (Shimizu, M. (1264) 330)

Human articular cartilage
Collagen; Intrafibrillar water; Ageing (Wachtel, E. (1243) 239)

Human breast adenocarcinoma cell
TGF-β1; Autoinduction; Inhibition of cell proliferation; Early gene response; Protein kinase C (Lafon, C. (1266) 288)

Human CETP
CETP; Transgenic mice; Lipoprotein; HDL cholesterol; HDL particle size; HDL_1 (Dinchuk, J. (1255) 301)

Human colonic, well-differentiated adenocarcinoma
ω-Hydroxydocosahexaenoic acid; ω-Hydroxyicosatetraenoic acid; ω-Oxidation; Liquid chromatography-thermospray-mass spectrometry (Shimizu, S. (1256) 293)

Human decidual cell
Interleukin-1β; Prostaglandin E_2; cyclic AMP (Cole, O.F. (1269) 139)

Human EAP
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Human factor *X*
Genetic variant; Missense mutation; Immunosorbent; Western blotting; Amino acid sequence; DNA sequence (Kim, D.J. (1271) 327)

Human fibroblast, in vitro
Hypergravity; Extracellular matrix; Fibronectin; Collagen; Collagenase; Elastin; Elastase (Gaubin, Y. (1245) 173)

Human liver
UDP-glucuronosyltransferase; Inhibitors; Glucuronidation; Molecular modeling (Battaglia, E. (1243) 9)

Human matrix metalloproteinase
Gelatinase B; Matrilysin; Collagenase; Zymogen activation (Sang, Q.-X. (1251) 99)

Human plasma
Glycosaminoglycan; Heparin; Chondroitin sulfate (Volpi, N. (1243) 49)

Human platelet
Cyclooxygenase; EIA; Monoclonal antibody; Acetylcholinesterase; HUVEC (Créminon, C. (1254) 333)

Human serum albumin
Bilirubin; Biliverdin; Bovine serum albumin; Circular dichroism; Albumin binding; Voltammetric reduction (Claret, J. (1243) 221)

Human skin
Similaun man; Mummification; Raman spectroscopy; Electron microscopy (Williams, A.C. (1246) 98)

Human T lymphocyte
Phospholipid; Phosphatidylethanolamine; Metabolism; Blastic transformation; Cell cycle (Rampini, C. (1257) 75)

Hutchinson-Gilford disease
Progeria; Aging; Fibroblast; Glycosylation; Lectin (Clark, M.A. (1270) 142)

HUVEC
Cyclooxygenase; EIA; Monoclonal antibody; Acetylcholinesterase; Human platelet (Créminon, C. (1254) 333)

Cyclooxygenase; EIA; Monoclonal antibody; Acetylcholinesterase (Créminon, C. (1254) 341)

Hydration effect
Stratum corneum; EPR; Phase transition; Membrane fluidity (Alonso, A. (1237) 6)

Hydride transfer mechanism
Ion transfer; NADH; 3-Acetylpyridine adenine dinucleotide; Pyridine nucleotide transhydrogenase; Transhydrogenation (Glavas, N.A. (1231) 297)

Hydrodynamic diameter
Antenna; Chlorosome; Morphology; Alcohol treatment; (Green bacterium) (Wang, Z.-Y. (1232) 187)

Hydrogenase
Quinone; Methylene blue; Electron transport; (*B. japonicum*) (Ferber, D.M. (1229) 334)

Polysulfide reductase; Electron transport; Formate dehydrogenase; (*W. succinogenes*) (Jankielewicz, A. (1231) 157)

Hydrogen bond
Photosystem II; Oxygen evolution; FTIR; H/D exchange; Carboxylate (Noguchi, T. (1232) 59)

Hydrogen bonding
Schiff base; Retinal binding protein; Water pool; Surfactant; Retinylidine (Singh, A.K. (1245) 167)

Hydrogen peroxide
Catalase; Alkaliphile; pH (Hicks, D.B. (1229) 347)

Chlorophyll bleaching; Nitrite; Nitrogen dioxide; Peroxidase (Shibata, H. (1230) 45)

Oxidative stress; Renal mitochondrion (González-Flecha, B. (1243) 361)

Chemiluminescence; Enolization; Glycation; Maillard reaction; Pyrone hydroperoxide (Lertsiri, S. (1245) 278)

Oxidative stress; Bovine serum albumin; Iron; Nitrilotriacetic acid; Free radical (Ogino, T. (1245) 359)

Leghemoglobin; Ferryl; Radical; EPR; Oxidative damage; Nitrogen fixation; Root nodule (Moreau, S. (1251) 17)

Protein kinase C; Smooth muscle cell; DNA synthesis (Fiorani, M. (1269) 98)

Red blood cell; Calcium; Cobalt; Cell membrane; Senescence; NMR (Aiken, N.R. (1270) 52)

Peroxisome proliferation; Fenofibrate; Antioxidant enzyme (Arnaiz, S.L. (1272) 175)

Hydrolysis kinetics
Phospholipase A_2; Snake venom; Partition coefficient (Bent, E.D. (1254) 349)

Hydroperoxide
Antioxidant; Radical; Co-oxidation; Lipoprotein; (Mammalian) (Schnurr, K. (1254) 66)

LDL; Lipid peroxidation; Aldehyde; NMR (Lodge, J.K. (1256) 130)

Hydroperoxide lyase
Hydroperoxyoctadecatrienoic acid; 2-Penten-1-ol; 13-Oxotrideca-9,11-dienoic acid; Elicitor; Defense mechanism; (Soybean) (Kondo, Y. (1255) 9)

Hydroperoxyoctadecatrienoic acid
2-Penten-1-ol; 13-Oxotrideca-9,11-dienoic acid; Hydroperoxide lyase; Elicitor; Defense mechanism; (Soybean) (Kondo, Y. (1255) 9)

Hydrophobic binding
Esperamicin; DNA; Induced fit (Uesugi, M. (1261) 99)

Hydrophobic effect
Miscible solvent; Aqueous–organic mixture; Protein denaturation; Denaturation capacity; Naphthalene solubility (Rosell, C.M. (1252) 158)

Hydrophobic ion
Electrogenic transport; ATPase, Na^+/K^+-; Reconstitution; Uncoupled sodium ion efflux; Sodium–sodium ion exchange; Dephosphorylation; Membrane potential (Cornelius, F. (1235) 183)

Hydrophobicity
Cholesterol; Nucleation; Bile salt; Gallstone (Juste, C. (1254) 89)

Hydrophobicity, protein
Lipid–protein complex; Molecular hydrophobicity potential; Apolipoprotein; Amphipathicity; Helix; Interaction energy (Lins, L. (1258) 10)

Hydrophobic surfactant protein
Acylated protein; Dimeric protein; Surface tension; Pulmonary surfactant (Creuwels, L.A.J.M. (1254) 326)

Hydrostatic pressure
Butyrylcholinesterase; Amiloride; Soman (Cléry, C. (1250) 19)

Butyrylcholinesterase; Reversed micelle; Soman (Clery, C. (1253) 85)

Lipid annulus; Desaturase; Liver microsome (Leikin, A. (1256) 13)

3-Hydroxyacyl-CoA dehydrogenase
Enoyl-CoA hydratase; Enoyl-CoA isomerase; Fatty acid degradation; Glyoxysome; 3-Hydroxyacyl-CoA epimerase (Gühnemann-Schäfer, K. (1256) 181)

3-Hydroxyacyl-CoA epimerase
Enoyl-CoA hydratase; Enoyl-CoA isomerase; Fatty acid degradation; Glyoxysome; 3-Hydroxyacyl-CoA dehydrogenase (Gühnemann-Schäfer, K. (1256) 181)

20-Hydroxyarachidonic acid
Arachidonic acid; Retinoic acid; Peroxisome proliferation; Fatty acyl-CoA oxidase; Catalase; Synergistic effect; Retinoid X receptor; (Morris Hepatoma 7800C1 cell) (Sohlenius, A.-K. (1258) 257)

25-Hydroxycholesterol
27-Hydroxycholesterol; 7α-Hydroxylation; HMG-CoA reductase; Fibroblasts; (Human) (Zhang, J. (1256) 353)

27-Hydroxycholesterol
25-Hydroxycholesterol; 7α-Hydroxylation; HMG-CoA reductase; Fibroblasts; (Human) (Zhang, J. (1256) 353)

ω-Hydroxydocosahexaenoic acid
ω-Hydroxyicosatetraenoic acid; ω-Oxidation; Human colonic, well-differentiated adenocarcinoma; Liquid chromatography-thermospray-mass spectrometry (Shimizu, S. (1256) 293)

ω-Hydroxydodecanoic acid
Acyl-CoA oxidation; Growth hormone; Thyroid hormone; Clofibrate; Hepatocyte culture (Sato, T. (1256) 327)

3β-Hydroxy-5-ene steroid dehydrogenase/ Δ^5- Δ^4-ene isomerase
Proteoliposome; Steroidogenesis; (Bovine adrenal) (Yamazaki, T. (1257) 293)

8-Hydroxyguanine
Oxidative DNA damage; Photosensitizer; Singlet oxygen; Mutagenesis (Buchko, G.W. (1263) 17)

12-Hydroxyicosatetraenoic acid
Lipoxygenase; Erythrocyte; Leukotriene D_4; (Amphibian) (Gronert, K. (1255) 311)

ω-Hydroxyicosatetraenoic acid
ω-Hydroxydocosahexaenoic acid; ω-Oxidation; Human colonic, well-differentiated adenocarcinoma; Liquid chromatography-thermospray-mass spectrometry (Shimizu, S. (1256) 293)

3-Hydroxyisobutyryl-CoA hydrolase
Branched-chain aminotransferase; Branched-chain 2-oxo acid dehydrogenase complex; Methacrylyl-CoA hydratase; Valine; (Dog) (Ooiwa, T. (1243) 216)

Hydroxylamine
Threonine dehydrogenase; Enzyme inactivation; Mutagenesis (Chen, Y.-W. (1253) 208)

Palmitoylation; Red blood cell; Ghost; Acylation (Schmidt, M.F.G. (1257) 205)

Hydroxylase
Molybdenum; Aldehyde oxidoreductase; Iron-sulfur center; Resonance Raman; EPR; (*D. gigas*) (Zhelyaskov, V. (1252) 300)

7α-Hydroxylation
27-Hydroxycholesterol; 25-Hydroxycholesterol; HMG-CoA reductase; Fibroblasts; (Human) (Zhang, J. (1256) 353)

Hydroxyl radical
Ischaemia-reperfusion; HPLC; Salicylate hydroxylation; (Isolated perfused rat kidney) (Kadkhodaee, M. (1243) 169)

Peroxynitrite; Spin trapping; Superoxide; Nitric oxide (Pou, S. (1244) 62)

Haber–Weiss reaction; Iron uptake; Iron; Transferrin (Richardson, D.R. (1269) 105)

Hydroxymethylglutaryl-CoA reductase inhibitor
Pravastatin; Hydroxymethylglutaryl-CoA reductase; Cholesterol metabolism; Species specificity; Triton WR-1339 (Fujioka, T. (1254) 7)

Hydroxymethylglutaryl-CoA reductase
Pravastatin; Hydroxymethylglutaryl-CoA reductase inhibitor; Cholesterol metabolism; Species specificity; Triton WR-1339 (Fujioka, T. (1254) 7)

4-Hydroxynonenal
Aldose reductase; Substrate specificity; Detoxification; Diabetic complication (Vander Jagt, D.L. (1249) 117)

Alveolar macrophage; Nitrogen dioxide; Aldehyde; Glycolaldehyde (Robison, T.W. (1256) 334)

Hydroxyoctadecadienoic acid
Atherosclerosis; Fatty streak; Lesion, intermediate and advanced; Normal artery; Oxysterol; (Human) (Carpenter, K.L.H. (1256) 141)

1-Hydroxyphenazine
Cystic fibrosis; (*P. aeruginosa*) (Muller, M. (1272) 185)

20β-Hydroxyprogesterone
Cytochrome $P\text{-}450_{c21}$; EPR; Steroid biosynthesis (Tsubaki, M. (1259) 89)

Hydroxyquinone
HIV-1 proteinase; Alizarin; Competitive inhibition; anti-AIDS drug (Brinkworth, R.I. (1253) 5)

11β-Hydroxysteroid dehydrogenase
Glycosylation; Alcohol dehydrogenase, short chain; Site-directed mutagenesis (Agarwal, A.K. (1248) 70)

Hydroxyurea
c-jun; Regulation; Transcription; Erythroid; Differentiation (Adunyah, S.E. (1263) 123)

α-Hyocholic acid
Bile acid; Cholesterol; Hyodeoxycholic acid; Lipoprotein; Sterol metabolism (Cohen-Solal, C. (1257) 189)

Hyodeoxycholic acid
Bile acid; Cholesterol; α-Hyocholic acid; Lipoprotein; Sterol metabolism (Cohen-Solal, C. (1257) 189)

Hyperbaric oxygenation
Nitric oxide synthetase; Macrophage (Kurata, S.-I. (1263) 35)

Hypercholesterolemia
Atherosclerosis; Acyl-CoA:cholesterol acyltransferase; (Rabbit) (Matsuo, M. (1259) 254)

Hyperchylomicronemia
Lipoprotein lipase; Aggregation; Monomer; Dimer (Masuno, H. (1254) 30)

Hyperglycemia
Palmitoylation; GLUT1; Brain capillary; Blood-brain barrier (Pouliot, J.-F. (1234) 191)

Hypergravity
Human fibroblast, in vitro; Extracellular matrix; Fibronectin; Collagen; Collagenase; Elastin; Elastase (Gaubin, Y. (1245) 173)

Hyperoxia
Membrane protein; Spin labeling; Protein oxidation; Aging; Free radical (Hensley, K. (1270) 203)

Hyperphosphorylation
P-glycoprotein; Multidrug resistance (Lee, W.-P. (1245) 57)

Hyperplasia
Brown adipose tissue; Creatine depletion; β-Guanidinopropionic acid; Nonshivering thermogenesis; Uncoupling protein (Yamashita, H. (1230) 69)

Hypersensitive response
Lipid peroxidation; Thermoluminescence; Fluorescence; (*N. tabacum*) (Stallaert, V.M. (1229) 290)

Hypertension
Arachidonic acid; Cytochrome *P*-450; Epoxyicosatrienoic acid; Cerebral blood flow; Atherosclerosis (VanRollins, M. (1256) 263)

Hyperthermophile
Aromatic aminotransferase; Enzyme purification; Enzyme characterization; Archaeon; Anaerobic bacterium; (*P. furiosus*) (Andreotti, G. (1247) 90)

Hypertriglyceridemia
Obesity; Insulin resistance; Atherosclerosis (Russell, J.C. (1258) 199)

Hypobetalipoproteinemia
Cholesterol; Heparin-binding; Immunoblotting; (McA-RH7777 cell) (McCormick, S.P.A. (1258) 49)

Hypothyroid state
Mitochondrion; Pyruvate oxidation; Fatty acid composition; (Heart) (Pehowich, D.J. (1235) 231)

Hypotonic stress
Inner medullary collecting duct; Volume regulation; Chloride conductance; Potassium ion conductance; Dideoxyforskolin; (Rat) (Sauer, H. (1239) 99)

Hypoxia
ATP; Phosphocreatine; Cyanide; (m. soleus) (Katz, A. (1244) 229)

Iron absorption; Intestine; Iron deficiency; Iron overload (Rabie, A. (1245) 414)

AP-1-inducible gene expression; AP-1 factor activation (Bandyopadhyay, R.S. (1264) 72)

Cytotoxicity; Reductive stress; Hepatocyte; (Rat liver) (Khan, S. (1269) 153)

Hysteretic inhibition
F_1; ATPase; Photoaffinity labeling; NAP_3-2-azido-ADP; Tight binding; Cooperativity; Non-catalytic site (Edel, C.M. (1229) 103)

I

IAP
Retrotransposon; Aging; Gene tagging; (Mouse liver) (Dupressoir, A. (1264) 397)

I_{sK} channel
Regulatory volume decrease; minK channel; LC chloride ion channel; Vestibular labyrinth (Shiga, N. (1240) 48)

Icosanoid
Arachidonic acid metabolism; Gene expression; 5-Lipoxygenase; Mast cell; Thromboxane (Macchia, L. (1257) 58)

Prostaglandin; Leukotriene; Cancer; Cell cycle; Proliferating cell nuclear antigen, PCNA; (Colon) (Qiao, L. (1258) 215)

Anandamide; Cannabinoid; Lipoxygenase; Cerebral lipid; Fatty acid-amide; (Brain) (Hampson, A.J. (1259) 173)

LDL, native; Acetyl-LDL; Arachidonic acid; Macrophage; Cholesteryl ester; Phospholipid (Pollaud, C. (1259) 211)

Calcium; Histamine; Mast cell; Protein tyrosine kinase; (Rat) (Van Haaster, C.M.C.J. (1265) 79)

Icosanoid precursor
1-Acyl-*sn*-glycero-3-phosphoinositol acyltransferase; Phosphatidylinositol; Substrate specificity; Acyl-CoA; Polyunsaturated fatty acid; (Rat submandibular gland microsome) (Yashiro, K. (1258) 288)

Icosapentaenoic acid
Docosahexaenoic acid; Docosapentaenoic acid; Interconversion; Endothelium; Lipid (Achard, F. (1255) 260)

In vitro; Primary human hepatocyte; Oleic acid; Triacylglycerol; Apo B; Phospholipid (Lin, Y. (1256) 88)

Mead acid; Arachidonic acid; Phospholipid; Essential fatty acid; (Rat hepatocyte) (Retterstøl, K. (1259) 82)

Docosahexaenoic acid; Absorption; Lymph; (Rat) (Ikeda, I. (1259) 297)

Identification
L-Threonine dehydrogenase; Mitochondrion; Inhibitor (Pagani, R. (1244) 49)

IF-2
Mitochondrion; Translational initiation; 3′-RACE PCR; RT-PCR; (Bovine) (Ma, J. (1261) 321)

eIF-4F
Cap-binding protein; mRNA cap structure; Translation initiation; Translational regulation; (*Drosophila*) (Hernández, G. (1261) 427)

IgA
Immunoglobulin; IgG; IgM; Isoelectric focussing; (Human) (Prin, C. (1243) 287)

IGFBP-4
Estrogen; Parathyroid hormone; IGF-I; Postmenopausal osteoporosis (Kudo, Y. (1245) 402)

IGF-I
Estrogen; Parathyroid hormone; IGFBP-4; Postmenopausal osteoporosis (Kudo, Y. (1245) 402)

IgG
Immunoglobulin; IgA; IgM; Isoelectric focussing; (Human) (Prin, C. (1243) 287)

Ig heavy chain
Gene structure; T cell; CD40 ligand; Chromosome X-linked hyper-IgM syndrome (Shimadzu, M. (1260) 67)

IgM
Immunoglobulin; IgA; IgG; Isoelectric focussing; (Human) (Prin, C. (1243) 287)

IL-6
Lecithin:cholesterol acyltransferase; Apo A-I; Liver; TGF-β; Regulation; mRNA; Dexamethasone; HepG2 cell (Skretting, G. (1255) 267)

IL-12
Cytokine; Cloning; Interleukin; Polymerase chain reaction; Nucleotide sequence; Protein sequence (Zarlenga, D.S. (1270) 215)

Ileum
Bile acid-binding protein; Chromosome 5; cDNA; (Human) (Oelkers, P. (1257) 199)

Iloprost
Chloroquine diphosphate; Cholesteryl ester hydrolytic activity; cyclic AMP-dependent protein kinase; H-89 (cyclic AMP-dependent protein kinase inhibitor); Phospholipid; 2′,5′ Dideoxyadenosine; Platelet (Barre, D.E. (1254) 180)

Immediate early gene
Fibroblast growth factor; Myoblast; Gene expression; MAP kinase; Signal transduction (Lim, R.W. (1266) 91)

Immobilization
Liposome; Surface layer, crystalline; S layer; Cell surface protein; (*B. coagulans*) (Küpcü, S. (1235) 263)

Diffusion; Chitosan-entrapped UDP-glucuronyl transferase (Zihnioğlu, F. (1244) 291)

Immortalized lymphoid cell line
Cholesterol sulfate; Epstein–Barr virus; X-linked ichthyosis (Tempesta, M.-C. (1272) 80)

Immunoaffinity chromatography
LDL; Charge; Oxidized LDL; Fast protein-liquid chromatography (Chappey, B. (1259) 261)

Immuno-analysis
Enzyme-immunoassay; Immunoslot blot; Ethylnitrosourea; DNA damage; O^4-Ethylthymine; DNA repair; Alkyltransferase (Musarrat, J. (1260) 276)

Immunoblotting
Gliadin; Coeliac disease; HPLC (Rocher, A. (1247) 143)

Peroxisome; Beta-Oxidation; Enzyme induction; Enzyme stabilization; Partially hydrogenated fish oil; (Rat liver); (Rat heart) (Kvannes, J. (1255) 39)

Hypobetalipoproteinemia; Cholesterol; Heparin-binding; (McA-RH7777 cell) (McCormick, S.P.A. (1258) 49)

Immunochemical
Lipase; Peptide mapping; *(Geotrichum candidum)* (Jacobsen, T. (1257) 96)

Immunochemistry
Diclofenac; Anti-inflammatory drug; Histocompatibility; Hepatotoxicity; (Human); (Rat) (Gil, M.L. (1272) 140)

Immuno cross-reactivity cellular fractionation
Photoactive yellow protein (PYP); Protein purification; Immunoscreening; Intracellular localization (Thiemann, B. (1253) 181)

Immunocytochemistry
Cytochrome *P*-450; Membrane proliferation; Endoplasmic reticulum; (*C. maltosa*) (Ohkuma, M. (1236) 163)

Immuno-electron microscopy
Microbody; Isopycnic centrifugation; Nycodenz; Protoplast; (*P. chrysogenum*) (Müller, W.H. (1245) 215)

Immunoglobulin
IgA; IgG; IgM; Isoelectric focussing; (Human) (Prin, C. (1243) 287)

Transfectant; Enhancer region; Vector; (Myeloma cell) (Harrison, T.M. (1260) 147)

Immunoliposome
Liposome; Antibody; Poly(ethylene glycol); Drug delivery system (Maruyama, K. (1234) 74)

Liposome; Monoclonal antibody; Ovarian carcinoma; Targeted drug delivery; (Human) (Nässander, U.K. (1235) 126)

Sterically stabilized liposome; Poly(ethylene glycol); Liposome targeting; Doxorubicin; Selective toxicity; Toxicity (Allen, T.M. (1237) 99)

Immunological characteristic
NADPH-cytochrome *P*-450 oxidoreductase; Cytochrome *P*-450 monooxygenase; Cinnamic acid 4-hydroxylase; Aminopyrine *N*-demethylation; BY2 (Imaishi, H. (1246) 53)

Immunoprecipitation
Bile acid; Lipoprotein; Binding protein; Photoaffinity labeling; Serum, human (Kramer, W. (1257) 230)

Immunoprobing
Ethylnitrosourea; DNA damage; Alkyl adduct; DNA repair; Plasmid vector; Restriction enzyme; Restriction protection; (*E. coli*) (Musarrat, J. (1263) 201)

Immunoscreening
Photoactive yellow protein (PYP); Protein purification; Immuno cross-reactivity cellular fractionation; Intracellular localization (Thiemann, B. (1253) 181)

Immunoslot blot
Immuno-analysis; Enzyme-immunoassay; Ethylnitrosourea; DNA damage; O^4-Ethylthymine; DNA repair; Alkyltransferase (Musarrat, J. (1260) 276)

Immunosorbent
Genetic variant; Missense mutation; Human factor *X*; Western blotting; Amino acid sequence; DNA sequence (Kim, D.J. (1271) 327)

Immunosurveillance
Tumor-infiltrating lymphocyte; Serpin; Immunotherapy; Cancer; (Human) (Packard, B.Z. (1269) 41)

Immunotherapy
Tumor-infiltrating lymphocyte; Serpin; Immunosurveillance; Cancer; (Human) (Packard, B.Z. (1269) 41)

Tumor-infiltrating lymphocyte; Elastase; (Human) (Packard, B.Z. (1269) 51)

Impedance
Electroporation; Iontophoresis; Stratum corneum; Passive electrical properties; Dynamic resistance; (Human skin) (Pliquett, U. (1239) 111)

Fibroblast; Cell motility; Silicon membrane; Pore (Hagedorn, R. (1269) 221)

Import mechanism
Polypeptide; Mitochondrial inner membrane; Electrochemical potential, transbilayer (McBride, H.M. (1237) 162)

Inactivation
Aminoacylase; Denaturation; Conformation; Kinetic analysis (Wang, H.-R. (1248) 97)

Creatine kinase; Sodium dodecyl sulfate; Conformation (Wang, Z.-F. (1251) 109)

Dihydrofolate reductase; Activation; Protein unfolding; Urea (Fan, Y.-x. (1252) 151)

Proteolytic enzyme; Subtilisin; Particle; Surface; Autolysis (Maste, M.C.L. (1252) 261)

Enzyme; Denaturation; Conformational change (Tsou, C.-L. (1253) 151)

Inborn error
Fatty acid; Mitochondrion; Fatty acid oxidation (Ventura, F.V. (1272) 14)

Inclusion body
Recombinant α_1-antitrypsin; Refolding; Aggregation (Kwon, K.-S. (1247) 179)

Incompatibility group IncQ
Antibiotic resistance; Streptothricin; *sat*3 gene; Bacterial plasmid; Nucleotide sequence (Tietze, E. (1263) 176)

Incomplete antibody
Incomplete lectin; Lectin; Antibody; Membrane skeleton; Erythrocyte membrane; Concanavalin A; (Human erythrocyte) (Pestonjamasp, K.N. (1235) 10)

Incomplete lectin
Lectin; Antibody; Incomplete antibody; Membrane skeleton; Erythrocyte membrane; Concanavalin A; (Human erythrocyte) (Pestonjamasp, K.N. (1235) 10)

Indanol
Dihydrodiol dehydrogenase; Aldo/keto reductase; Reaction mechanism; Bile acid (Nanjo, H. (1244) 53)

Indole-3-acetic acid
Indolepyruvate decarboxylase; Pyruvate decarboxylase; Thiamin diphosphate; Thiamin catalysis; Crystallography (Koga, J. (1249) 1)

Indolepyruvate decarboxylase
Indole-3-acetic acid; Pyruvate decarboxylase; Thiamin diphosphate; Thiamin catalysis; Crystallography (Koga, J. (1249) 1)

Indolicidin
Antimicrobial agent; Antifungal agent; Liposome; Peptide (Ahmad, I. (1237) 109)

Indomethacin
Phospholipase A_2; Elicited peritoneal macrophage; Prostaglandin E_2; Leukotriene B_4; Cyclooxygenase; Transformation growth factor; Aspirin (Bolognese, B. (1256) 201)

Induced fit
Esperamicin; DNA; Hydrophobic binding (Uesugi, M. (1261) 99)

Induced hibernation
Glyceraldehyde-3-phosphate dehydrogenase; Enzyme isoform; Chromatofocusing (Soukri, A. (1243) 161)

Inducible NO synthase
Active oxygen species; Antioxidant; Nitric oxide (Mikoyan, V.D. (1269) 19)

Inflammation
Zinc; Metallothionein; Tumor; Stress; Liver (Takeda, A. (1243) 325)

Arachidonic acid; Atherosclerosis (Freire-Moar, J. (1254) 112)

Arachidonic acid; Atherosclerosis; Lipogenase gene; (Mouse) (Willems van Dijk, K. (1259) 4)

Surfactant; Lavage; Silica; Activation (Viviano, C.J. (1259) 235)

Kininogen; Fibroblast; cyclic AMP; Prostaglandin E_2; Tumor necrosis factor; (Mouse) (Takano, M. (1265) 189)

Influenza virus
Sialic acid; Membrane fusion; Membrane binding; CEM cell; Neuraminidase; Fluorescence (Pedroso de Lima, M.C. (1236) 323)

Infrared spectroscopy
Daptomycin; Gentamicin; Aminoglycoside; Nephrotoxicity; Phosphatidylinositol (Gurnani, K. (1237) 86)

Raman spectroscopy; Bombesin; Peptide conformation (Carmona, P. (1246) 128)

Infrared spectroscopy of protein
Protein calorimetry; Protein–lipid interaction; Ribosome-inactivating protein (Gasset, M. (1252) 126)

Inhibition
Organic cation; Tryptamine; Surface potential; Liposome; Brush-border membrane; (Rat intestine) (Sugawara, M. (1234) 22)

Brush-border membrane vesicle; Calcium ion transport; Polycation; EPR; (Intestine) (Schedl, H.P. (1234) 81)

Sodium ion/phosphate cotransporter; Phosphate transport; Sulfhydryl specific reagent; Molecular mechanism; Brush-border membrane; (Intestine) (Peerce, B.E. (1239) 11)

NADH oxidase activity; Sulfonylurea; Antitumor drug; Plasma membrane; HeLa cell (Morré, D.J. (1240) 201)

Site-directed mutagenesis; Aldose reductase; Kinetics; Polyol pathway; Diabetes; Rat lens (Carper, D.A. (1246) 67)

Bacteriophage lambda lysozyme; NMR; Methionine; DSC; Peptidoglycan (Duewel, H.S. (1247) 149)

Raman spectroscopy; Butyrylcholinesterase; Soman; Diisopropylphosphofluoridate; Paraoxon (Aslanian, D. (1249) 37)

Aminopeptidase; Aminopeptidase; Amastatin; Catalytic site; (Tuna) (Hajjou, M. (1251) 139)

CDC48p protein; ATPase activity; Cell cycle protein; *N*-Ethylmaleimide; (*S. cerevisiae*) (Fröhlich, K.-U. (1253) 25)

Carnitine acetyltransferase; Binding; Light scattering; Circular dichroism; Fluorescence (Yan, B. (1253) 175)

Diamine oxidase; Alkaloid; (Porcine); (Kidney) (Cheng, E. (1253) 189)

Lipoprotein; Modification; Apolipoprotein B; Thromboplastin; Thrombosis (Ettelaie, C. (1257) 25)

Acyl-CoA:cholesterol acyltransferase; Membrane environment (Harte, R.A. (1258) 241)

LDL; Oxidation; Bilirubin; Albumin-bound bilirubin; Transition metal (Hulea, S.A. (1259) 29)

Phosphonate; Transition state; Lipase; Triacylglycerol (Mannesse, M.L.M. (1259) 56)

Reverse transcriptase; Modified polynucleotide (Tőkés, S. (1261) 115)

Adhesion; Hemocyte; Adenosine; Caffeine; Phagocyte; (Mussel) (Chen, J.-H. (1268) 178)

Inhibition of cell proliferation
TGF-β1; Autoinduction; Early gene response; Protein kinase C; Human breast adenocarcinoma cell (Lafon, C. (1266) 288)

Inhibitor
L-Threonine dehydrogenase; Mitochondrion; Identification (Pagani, R. (1244) 49)

Glucose transport; Facilitated diffusion; Radioactive tracer analysis; (*H. pylori*) (Mendz, G.L. (1244) 269)

Archaeon; ATPase; Catalytic subunit; Amino acid sequence; ATP hydrolysis; (*H. volcanii*) (Steinert, K. (1249) 137)

Rat skin; Lipoxygenase; Peroxidation (Lomnitski, L. (1255) 351)

Adipocyte; cAMP-dependent protein kinase; Insulin; Lipolysis; Phosphodiesterase (Eriksson, H. (1266) 101)

UDP-glucuronosyltransferase; Human liver; Glucuronidation; Molecular modeling (Battaglia, E. (1243) 9)

Inhibitor analysis
Group-transfer pathway; Control coefficient; Metabolic control analysis (Kholodenko, B.N. (1229) 275)

Inhibitor binding
Papain; Specificity; Substrate binding; Cooperativity (Liu, S. (1250) 43)

Inhibitor, Na^+
ATPase, Na^+-; DCCD; Amiloride; Ion transport; (*A. woodii*) (Spruth, M. (1229) 96)

Inhibitor protein
Mitochondrion; ATP synthase, H^+-; Sequence homology; (Potato) (Polgreen, K.E. (1229) 175)

Inhibitory protein
Calcium; ATPase, F_1F_o-; Adenine nucleotide translocase; Crabtree effect; (Ehrlich ascites tumor) (Bogucka, K. (1228) 261)

Inhomogeneous broadening
Photosynthesis; Light harvesting antenna; Quantasome; Bacteriochlorophyll *b*; (*Rps. viridis*) (Monshouwer, R. (1229) 373)

INH resistance
Mycolic acid; Catalase; Peroxidase; Mycobacterium (Quémard, A. (1254) 98)

Initiation
Insulin growth factor II; Translation; Internal ribosome entry site; (Human) (Teerink, H. (1264) 403)

Initiation factor
Protein synthesis; Gene; (Rat) (Flowers, K.M. (1264) 163)

Initiation factor 2
Translational regulation; Glycoprotein; cDNA; (Human) (Li, X. (1260) 333)

Initiation factor 2α
Phosphorylation site; Casein kinase; Recombinant initiation factor 2α; (Yeast) (Van den Heuvel, J. (1261) 337)

Ink gland
Peroxidase; Melanogenesis; PCR; (*S. officinalis*) (Palumbo, A. (1247) 173)

Inner medullary collecting duct
Kidney epithelium; Cation channel; ATP; Gadolinium (Nonaka, T. (1233) 163)

Cation channel; Sodium ion transport; Reverse transcriptase–polymerase chain reaction; PCR; (Mouse kidney) (Karlson, K.H. (1236) 197)

Volume regulation; Chloride conductance; Potassium ion conductance; Dideoxyforskolin; Hypotonic stress; (Rat) (Sauer, H. (1239) 99)

Inner membrane
Protoplast; Patch clamp; Anionic channel; (*E. coli*) (Kubalski, A. (1238) 177)

Inositol
NMR spectroscopy; Glycerophosphorylcholine; Seminal plasma; Reproduction (Kamp, G. (1243) 101)

***myo*-Inositol**
Osmolyte; Facilitated diffusion; Kidney; Phlorizin; Phloretin; Glucose; (Proximal tubule); (LLC-PK_1 cell) (Russo, L.M. (1236) 15)

Inositol 1,4,5-trisphosphate
Phosphatase; Kinase; Receptor; Molecular recognition (Hirata, M. (1244) 404)

ATP receptor; Potassium ion channel, Ca^{2+}-activated; Calcium ion release (Peres, A. (1265) 33)

Inositol trisphosphate
Heat stable enterotoxin; Calcium ion, intracellular concentration; Epithelial cell (Chaudhuri, A.G. (1267) 131)

Purinoceptor; (Rat liver) (Keppens, S. (1269) 316)

Insect
Gluconeogenesis; Nutrition; Tricarboxylic acid cycle (Thompson, S.N. (1245) 376)

Insect cell
Recombinant DNA; Transfer vector; Translational initiation; T7 expression system; Heparin-affinity chromatography; Mitogen (Hills, D. (1260) 14)

Insertion sequence
Abequose synthetase; Evolution; O-antigen; Paratose synthetase; Tyvelose epimerase (Hobbs, M. (1245) 273)

In situ perfusion
[D-Ala^1] Peptide T amide; Degradation; Chronical loop perfusion; BBMV (Su, S.-F. (1245) 62)

Insulin
Glycogen synthase; Glucose 6-phosphate; Skeletal muscle; Allosteric activation (Villar-Palasi, C. (1244) 203)

Insulin receptor; Adipocyte; Palmitoylation; CD36 (Jochen, A.L. (1259) 65)

PEPCK; Gene transcription; (Human) (O'Brien, R.M. (1264) 284)

Glucose transport; Protein kinase C; Phorbol ester (Russ, M. (1265) 73)

Adipocyte; cAMP-dependent protein kinase; Inhibitor; Lipolysis; Phosphodiesterase (Eriksson, H. (1266) 101)

Glucose transport; Endothelial cell; Histamine; GLUT1; GLUT4 (Thomas, J. (1268) 88)

Mesangial cell; Whole-cell recording; Chloride conductance; Ochratoxin A; Niflumic acid; (*H-2K^b*-tsA58 transgenic mouse) (Barber, R.D. (1269) 267)

Insulin growth factor II
Translation; Initiation; Internal ribosome entry site; (Human) (Teerink, H. (1264) 403)

Insulin-like growth factor II
Receptor; Proximal tubule membrane; (Rabbit) (Jacobsen, C. (1235) 85)

Insulin receptor
Protein-tyrosine phosphatases; Tyrosine phosphorylation; Skeletal muscle; Tyrosine kinase (Ahmad, F. (1248) 57)

Lipogenic enzyme gene expression; Polyunsaturated fatty acid; (Rat) (Iritani, N. (1255) 1)

Insulin; Adipocyte; Palmitoylation; CD36 (Jochen, A.L. (1259) 65)

Gene; Posttranscriptional regulation; mRNA stability; Polyadenylation (Levy, J.R. (1263) 253)

Insulin resistance
Obesity; Hypertriglyceridemia; Atherosclerosis (Russell, J.C. (1258) 199)

Integration host factor
HU; curved DNA; DNA bending (Shimizu, M. (1264) 330)

Integrin
Type VI collagen; Chondrocyte; RGD; Cartilage; Cell attachment (Marcelino, J. (1249) 180)

$\alpha_v\beta_3$ Integrin
Endothelial cell; Ancrod-generated fibrin; G-protein-coupled phospholipase C; Cell morphology (Chang, M.-C. (1269) 115)

Interaction
Albumin; Bile salt; Fluorescence; Binding; Amino acid (Farruggia, B. (1252) 59)

Interaction energy
Polypeptide secondary structure; Interaction with cyanine; Band shifting, UV-Vis; HOMO-LUMO energy; Molecular dynamics (Hermel, H. (1252) 79)

Lipid–protein complex; Molecular hydrophobicity potential; Hydrophobicity, protein; Apolipoprotein; Amphipathicity; Helix (Lins, L. (1258) 10)

Interaction with cyanine
Polypeptide secondary structure; Band shifting, UV-Vis; Interaction energy; HOMO-LUMO energy; Molecular dynamics (Hermel, H. (1252) 79)

Intercellular adhesion molecule
Gene expression; Heavy metal modulation; (Human) (Martinotti, S. (1261) 107)

Interconversion
Icosapentaenoic acid; Docosahexaenoic acid; Docosapentaenoic acid; Endothelium; Lipid (Achard, F. (1255) 260)

Interdigitated phase
Phospholipid; X-ray diffraction; Lipid phase behavior (Cunningham, B.A. (1233) 68)

Interdigitation
Fusion; Aggregation; Liposome; Ethanol; Vesicle (Komatsu, H. (1235) 270)

Phospholipid bilayer; Molecular geometry; Alcohol; DSC; Electron microscopy (Mason, J.T. (1236) 65)

Ethanol; Permeability; Liposome; Phase separation; Vesicle (Komatsu, H. (1237) 169)

Interfacial catalysis
Phospholipase A_2; Lipolysis; Competitive inhibition (De Haas, G.H. (1257) 87)

Interfacial polarization
Dielectric relaxation; Permittivity; Cell concentration; Growth curve; (*S. cerevisiae*) (Asami, K. (1245) 99)

Dielectric relaxation; Permittivity; Non-spherical cell; Synchronized culture; Growth curve (Asami, K. (1245) 317)

Interferon-α 2
Allelic variant; Transcription; Peptide map (Linge, C. (1264) 363)

Interleukin
Cytokine; Cloning; IL-12; Polymerase chain reaction; Nucleotide sequence; Protein sequence (Zarlenga, D.S. (1270) 215)

Interleukin 1
Signal transduction; Second messenger; Protein kinase; MAP kinase; Transcription factor (O'Neill, L.A.J. (1266) 31)

Interleukin 1α
Stimulation-secretion coupling; Flow culture system; Hepatocyte growth factor; Embryonic lung fibroblast; (Human) (Shimizu, M. (1244) 357)

Interleukin 1β
cyclic AMP response element-binding protein; E4BP4; bZIP transcription factor; Phosphorylation (Chen, W.-J. (1264) 388)

Human decidual cell; Prostaglandin E_2; cyclic AMP (Cole, O.F. (1269) 139)

Interleukin 2
Lymphocyte activation; Gene expression; Transcription factor; Reactive oxygen species; Cellular redox state (Goldstone, S.D. (1263) 114)

Promoter; Signal transduction; T cell activation; Transcription factor (Serfling, E. (1263) 181)

Interleukin 4
NADPH oxidase; gp91-phox; Macrophage; (Swine) (Zhou, Y. (1265) 40)

Interleukin 6
Multidimensional NMR; NMR; Resonance assignment; Cytokine structure; α-Helical bundle (Morton, C.J. (1249) 189)

Interleukin 6 induction
β-Galactoside α-2,6-sialyltransferase; Transcriptional regulation; Acute phase reactant; (HepG2 cell) (Aas-Eng, D.A. (1261) 166)

Interleukin release
Extracellular matrix protein; $CD14^+/CD16^+$ monocyte; CD56 surface marker; LAK dependent cytotoxicity; TNFα; (Human) (López-Moratalla, N. (1265) 181)

Intermediate
Phytochrome; Heterogeneity; Excited state; Fluorescence; Photochemistry; Dark reaction (Sineshchekov, V.A. (1228) 125)

pH; Denaturation; Protein folding; Self-association; Growth hormone; (Human) (DeFelippis, M.R. (1247) 35)

Intermediate filament
α-Keratin; Synchrotron X-ray diffraction (Wilk, K.E. (1245) 392)

Intermediate structure
Structure alteration; Hemoglobin; Ligand binding; Quaternary structure (Arata, Y. (1247) 24)

Internalization
Erythrocyte; Membrane; Erythrophagocytosis; (*B. bacilliformis*) (Xu, Y.-H. (1234) 173)

Guanylyl cyclase C; Enterotoxin, heat-stable; T84 human colon carcinoma cell; ST receptor; (*E. coli*) (Urbanski, R. (1245) 29)

Internal ribosome entry site
Insulin growth factor II; Translation; Initiation; (Human) (Teerink, H. (1264) 403)

Internal transcribed spacer
Targeted mutagenesis; rDNA; 5.8S rRNA (Abou Elela, S. (1262) 164)

Inter-species conservation
α-Tubulin; Carboxy-terminal residue; Neural specificity; Transgenic expression; (*C. elegans*) (Fukushige, T. (1261) 401)

Intestinal differentiation
Gene regulation; P-glycoprotein; Multidrug transporter; *mdr* gene (Chianale, J. (1264) 369)

Intestinal epithelial cell, IEC-6
Progesterone; LDL; HMG-CoA reductase; (Rat) (Sexton, R.C. (1255) 320)

Intestinal growth
Diamine oxidase; Phytohemagglutinin; Polyamine; Polyamine oxidase (Sessa, A. (1244) 198)

Intestinal microsome
Bilirubin; UDP-glucuronosyltransferase; Cholesterol (Sánchez-Pozzi, E.J. (1245) 293)

Intestinal mucosa
Adipose tissue; Liver; Obesity; Glycerolipid formation; Triacylglycerol; Phosphatidate phosphohydrolase (Jamdar, S.C. (1255) 237)

Intestinal transport
Peptide transporter; Structure–transport relation; Computational chemistry (Swaan, P.W. (1236) 31)

Intestine
Fucoprotein; Fucosylation; Development; Weaning; Glycosylation (Lenoir, D. (1234) 29)

Proton/amino acid transport; Brush-border membrane; Epithelium; Caco-2 cell; pH, intracellular (Thwaites, D.T. (1234) 111)

Iron absorption; Iron deficiency; Hypoxia; Iron overload (Rabie, A. (1245) 414)

Glycosphingolipid; Blood group; (Rat) (Bouhours, D. (1255) 131)

Total parenteral nutrition; Emulsion; Cholesterol synthesis; Isotopomer analysis; (Liver) (Hajri, T. (1258) 188)

Sphingomyelinase; Alkaline; Bile salt (Duan, R.-D. (1259) 49)

***int* gene**
Mammary tumor; Early transposon; mETn expression; (Mouse) (Durgam, V.R. (1263) 89)

Intracellular localization
Photoactive yellow protein (PYP); Protein purification; Immunoscreening; Immuno cross-reactivity cellular fractionation (Thiemann, B. (1253) 181)

Intracellular process
Platelet-activating factor; PAF metabolism; PAF enzyme; PAF analog (Snyder, F. (1254) 231)

Intracellular sodium
Ischemia; Magnesium; Reperfusion; Calcium, free (Dowd, T.L. (1272) 133)

Intracellular sodium ion
Sodium ion, intracellular; NMR; Ion flux; Cell culture; Mitogenic signal; (3T3 fibroplast) (Berman, E. (1239) 177)

Intracellular storage
α-L-Fucosidase; Lysosomal storage disease; Isoform spectrum; Fibroblast; (Human skin) (Beyer, E. (1270) 7)

Intrafibrillar water
Human articular cartilage; Collagen; Ageing (Wachtel, E. (1243) 239)

Intraliposomal precipitation
Vesicle; Gradient loading; Microreactor; Phase transition; Drug encapsulation; Stability; Doxorubicin gel (Lasic, D.D. (1239) 145)

Intrinsic fluorescence
Pulmonary surfactant; Surfactant-associated protein; Circular dichroism; Secondary structure; Organic solvent (Cruz, A. (1255) 68)

Intrinsic tryptophan fluorescence spectroscopy
Lens; Protein–ligand binding; α-Crystallin; ATP (Palmisano, D.V. (1246) 91)

Intron
ATPase, V-; Gene; Bioenergetics; (*C. caldarium*) (Ziegler, K. (1230) 202)

ATPase, V-; Promoter; (*G. lamblia*) (Hilario, E. (1238) 94)

Glutamate dehydrogenase; Exon-shuffling; Enzyme structure (Teller, J.K. (1247) 231)

cDNA; Evolution; Protein synthesis (Bäuerle, A. (1260) 223)

Hemoglobin; Gene structure; Evolution; Ciliated protist (Yamauchi, K. (1264) 53)

Protein kinase; Homology; Tandem repeat; (Dictyostelium discoideum) (Wetterauer, B.W. (1265) 97)

Inverse PCR cloning
LOX; Plant lipoxygenase; Barley; cDNA cloning; (*Hordeum vulgare* L.) (Van Mechelen, J.R. (1254) 221)

Inverso derivative
Antigenicity; Topochemically related peptide; Affinity chromatography; Retro derivative; (Rabbit) (Verdoliva, A. (1253) 57)

Invertase
Protein entrapment; Polysiloxane copolymer; Urease (Venton, D.L. (1250) 117)

Fructofuranosidase; Higher plant invertase; Fungal invertase; (*P. sanguineus*) (Quiroga, E.N. (1251) 75)

In vitro
Primary human hepatocyte; Icosapentaenoic acid; Oleic acid; Triacylglycerol; Apo B; Phospholipid (Lin, Y. (1256) 88)

In vitro toxicity
Gliadin peptide; Coeliac disease (Cornell, H. (1270) 168)

In vivo footprinting
Crystallin; Transgenic mouse; Gene regulation; Lens; Eye (Duncan, M.K. (1261) 68)

ATPase, Na^+/K^+-; Promoter (Nomoto, M. (1264) 35)

In vivo measurement
Nitric oxide; Fusinite; Kinetics; EPR; CHO cell; Cell metabolism; Mitochondrion (Clarkson, R.B. (1243) 496)

Iodination
ATPase, Na^+/K^+-; Membrane topology (Vladimirova, N.M. (1233) 175)

Iodine
Ion transport; Potential energy barrier; Voltage-clamp; Lipid bilayer membrane (Klotz, K.-H. (1235) 378)

Iodoacetamide
Erythrocyte membrane; *N*-Ethylmaleimide; Sodium/lithium ion countertransport; Sulfydryl group; Thiol group; Transport kinetics (Thomas, T.H. (1235) 317)

Iodo-aryl-azide
Adenylyl cyclase; Adenylyl cyclase; P-site inhibition; Photoaffinity ligand; 2′,5′-Dideoxyadenosine (Shoshani, I. (1245) 37)

5′-Iodo-*O*-methyl-Δ^8-tetrahydrocannabinol
Small angle X-ray diffraction; DSC; Drug–membrane interaction; Cannabinoid; (−)-*O*-Methyl-Δ^8-tetrahydrocannabinol (Mavromoustakos, T. (1237) 183)

Ion channel
Lipid bilayer; Calcium ion channel selectivity; Latroinsectotoxin; Latrotoxin (Shatursky, O.Ya. (1233) 14)

Lipid bilayer; Non stochastic distribution (Krasilnikov, O.V. (1233) 105)

Novobiocin; HPLC purification (Feigin, A.M. (1234) 43)

L-Glutamate; Nitrous oxide; High pressure; Anesthesia (Macdonald, A.G. (1236) 135)

δ-Toxin; Amphipathic helix; Hemolysis; Channel-forming peptide (Kerr, I.D. (1236) 219)

Leukotoxin; Planar bilayer; Bacterial toxin; Single channel conductance; Multiple conductance state; Membrane pore; RTX toxin; (*A. actinomycetemcomitans*) (Lear, J.D. (1238) 34)

Hemolysis; Phospholipid bilayer; Monoclonal antibody; Erythrocyte ghost; Epitope mapping (Menestrina, G. (1238) 72)

LUV; Membrane-active antibiotic; Pyranine; Osmotic stress; Amphotericin B (Wolf, B.D. (1238) 156)

Nicotinic acetylcholine receptor; Transmembrane helix; Molecular dynamics; Electrostatics (Sankararamakrishnan, R. (1239) 122)

Magainin peptide; Cytolysis; Eukaryotic cell; Flow cytometry; Propidium iodide; Anti-microbial peptide (Haimovich, B. (1240) 149)

Ion channel reconstitution
Biomolecular membrane; Lipid membrane (Brutyan, R.A. (1236) 339)

Ion current
Cytomegalovirus; Cell death; Virus infection; (Human fibroblast) (Bakhramov, A. (1265) 143)

Ion fluctuation
Dielectric relaxation; DNA chain bending (Bone, S. (1260) 85)

Ion flux
Sodium ion, intracellular; Intracellular sodium ion; NMR; Cell culture; Mitogenic signal; (3T3 fibroplast) (Berman, E. (1239) 177)

Ionic selectivity
Amphotericin B; Aromatic polyene antibiotic; Antibiotic; Vacidin A; Erythrocyte; Hemolysis (Cybulska, B. (1240) 167)

Ionic strength
Polyphosphate-polyamine complex; Amine oxidase; Polyphosphate-polyamine–amine oxidase interaction (Luisa Di Paolo, M. (1247) 246)

Ionic titration
Gramicidin A, C-13 labeled; Dodecylphosphocholine micelle; Circular dichroism (Jing, N. (1238) 1)

Ionizable mobile carrier
Alkali cation transport kinetics; Competitive transport selectivity; pH; Temperature; Lipid membrane (Loiseau, A. (1238) 107)

Ionophore A23187
EGTA; Sodium–calcium ion exchange; Submembrane calcium ion; Temperature; Giant patch; Cardiac membrane (Kabakov, A.Y. (1240) 142)

Iontophoresis
Electroporation; Stratum corneum; Passive electrical properties; Impedance; Dynamic resistance; (Human skin) (Pliquett, U. (1239) 111)

Ion transfer
Hydride transfer mechanism; NADH; 3-Acetylpyridine adenine dinucleotide; Pyridine nucleotide transhydrogenase; Transhydrogenation (Glavas, N.A. (1231) 297)

Ion transport
ATPase, Na^+-; DCCD; Amiloride; Inhibitor, Na^+; (*A. woodii*) (Spruth, M. (1229) 96)

Active transport; Electrostatics; ATPase, Ca^{2+}-; Binding site asymmetry (Hao, M.-H. (1234) 5)

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Iron chelation
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Iron deficiency
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Iron overload
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Iron uptake
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Haber–Weiss reaction; Hydroxyl radical; Iron; Transferrin (Richardson, D.R. (1269) 105)

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Keratan sulfate oligosaccharide
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Latrotoxin
Lipid bilayer; Ion channel; Calcium ion channel selectivity; Latroinsectotoxin (Shatursky, O.Ya. (1233) 14)

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LDL function
Lipoprotein (a); *N*-Acetylcysteine; LDL composition; Diabetes (Gilligan, S. (1254) 187)

LDL metabolism
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LDL receptor
Soluble fiber; Dietary cholesterol; Hepatic cholesterol synthesis; LDL production (Turley, S.D. (1255) 177)

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LDL receptor structure
LDL receptor mutation; Familial hypercholesterolaemia (Patel, D.D. (1255) 285)

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Incomplete lectin; Antibody; Incomplete antibody; Membrane skeleton; Erythrocyte membrane; Concanavalin A; (Human erythrocyte) (Peston-jamasp, K.N. (1235) 10)

Okra mucilage; Carbohydrate epitope; Carbohydrate combining site; Carbohydrate binding property (Wu, A.M. (1243) 157)

N-Acetyllactosamine; (*Arum maculatum*) (Allen, A.K. (1244) 129)

Von Willebrand factor; cDNA cloning; Gene expression; Baculovirus vector; (Silkworm) (Kotani, E. (1260) 245)

Oviduct; Sperm; Glycoprotein; Sialic acid; Oligosaccharide (Satoh, T. (1266) 117)

Hutchinson-Gilford disease; Progeria; Aging; Fibroblast; Glycosylation (Clark, M.A. (1270) 142)

Leghemoglobin
Sulfhydryl group; Cysteine; EPR; Oxidative damage; Nitrogen fixation; (Root nodule) (Puppo, A. (1246) 74)

Hydrogen peroxide; Ferryl; Radical; EPR; Oxidative damage; Nitrogen fixation; Root nodule (Moreau, S. (1251) 17)

Legumin
Langmuir–Blodgett film; XPS; ESCA; Protein orientation; (*P. sativum*) (Lebugle, A. (1248) 107)

Leigh's syndrome
Cytochrome *c* oxidase; Nucleotide binding; Tissue-specific isozyme; Subunit composition; Proton pump (Kadenbach, B. (1271) 103)

Mitochondrion; mtDNA; tRNA; Myoclonus epilepsy; Mitochondrial encephalomyopathy (Holme, E. (1271) 249)

Lemakalim
Cromakalim; Glibenclamide (Tromba, C. (1266) 268)

Lens
α-Crystallin; Chaperone; Protein aggregation; Cataract; Thermal denaturation (Rao, P.V. (1245) 439)

Protein–ligand binding; α-Crystallin; ATP; Intrinsic tryptophan fluorescence spectroscopy (Palmisano, D.V. (1246) 91)

Ganglioside; Cataract, human senile; Sialyl-Lewis^x (Ogiso, M. (1256) 166)

Argininosuccinate lyase; δ-Crystallin; CR1; Gene expression; Enhancer; (Duck) (Li, X. (1261) 25)

Crystallin; In vivo footprinting; Transgenic mouse; Gene regulation; Eye (Duncan, M.K. (1261) 68)

Lens crystallin
Methylglyoxal; Cataract; Fluorescence (Riley, M.L. (1270) 36)

Lens protein
γ-Crystallin; Rotational diffusion; Self-association; Protein–protein interaction; Macromolecular crowding (Stevens, A. (1246) 82)

Non-enzymatic glycation; Vitamin C; Plasma protein; Collagen (Nagaraj, R.H. (1253) 75)

Lesion, intermediate and advanced
Atherosclerosis; Fatty streak; Normal artery; Oxysterol; Hydroxyoctadecadienoic acid; (Human) (Carpenter, K.L.H. (1256) 141)

Leucine
Yeast; Amino acid transport; Isoleucine; Valine (Grauslund, M. (1269) 275)

Leukemia
Polyunsaturated fatty acid; Desaturation; Elongation; Cell differentiation; Lymphoma; (Human) (Marzo, I. (1257) 140)

Differentiation inhibitory factor; Nm23; Nucleoside diphosphate kinase (Okabe-Kado, J. (1267) 101)

Leukemia cell
Merocyanine 540; Erythrocyte membrane (Lagerberg, J.W.M. (1235) 428)

Glutathione; Selenium; Glutathione peroxidase; *t*-Butyl hydroperoxide (Korytowski, W. (1267) 31)

Leukemia inhibitory factor
hLIF; Gene expression; Expression vector; Synthetic gene; Protein characterization; (*E. coli*); (Human) (Samal, B.B. (1260) 27)

Leukocyte
Chemotaxis; Cell polarization; Metal ion; FMLP (Hujanen, E.S. (1245) 145)

Trophoblast; Cell adhesion; Cyclohexylamine; Adhesion molecule; Fucose-1-phosphate (Douglas, G.C. (1266) 229)

Leukotoxin
Planar bilayer; Ion channel; Bacterial toxin; Single channel conductance; Multiple conductance state; Membrane pore; RTX toxin; (*A. actinomycetemcomitans*) (Lear, J.D. (1238) 34)

Leukotriene
Fish oil; Atherosclerosis; HETE; Prostaglandin; Cholesterol (Surette, M.E. (1255) 185)

Icosanoid; Prostaglandin; Cancer; Cell cycle; Proliferating cell nuclear antigen, PCNA; (Colon) (Qiao, L. (1258) 215)

Leukotriene B_4
Phospholipase A_2; Elicited peritoneal macrophage; Prostaglandin E_2; Cyclooxygenase; Transformation growth factor; Indomethacin; Aspirin (Bolognese, B. (1256) 201)

Leukotriene C_4
Lipoxygenase; Thrombocyte; Lipoxin; Amphibian; (*R. catesbeiana*) (Gronert, K. (1259) 203)

Leukotriene C_4 synthase
N-terminal sequence; Monocytic cell; Mast cell; (Human); (Mouse) (Goppelt-Struebe, M. (1256) 257)

Leukotriene D_4
Lipoxygenase; Erythrocyte; 12-Hydroxyicosatetraenoic acid; (Amphibian) (Gronert, K. (1255) 311)

LH1
Antenna complex; Light harvesting; LH2; Circular dichroism; Transmembrane helix; Bacterial photosynthesis; (*Rh. molischianum*); (*Rb. sphaeroides*) (Visschers, R.W. (1230) 147)

LH2
Antenna complex; Light harvesting; LH1; Circular dichroism; Transmembrane helix; Bacterial photosynthesis; (*Rh. molischianum*); (*Rb. sphaeroides*) (Visschers, R.W. (1230) 147)

LHC II protein kinase
Thylakoid membrane organization; Grana margin; Membrane domain; Protein phosphorylation; Aqueous two-phase partitioning (Stefánsson, H. (1231) 323)

LHC kinase
State I–State II transition; Cyanide inhibition; (*C. reinhardtii*) (Gans, P. (1228) 51)

hLIF
Leukemia inhibitory factor; Gene expression; Expression vector; Synthetic gene; Protein characterization; (*E. coli*); (Human) (Samal, B.B. (1260) 27)

Ligand binding
Phase partition; LLPC; Conformational change; Antibody; Enzyme (Wingren, C. (1244) 209)

Intermediate structure; Structure alteration; Hemoglobin; Quaternary structure (Arata, Y. (1247) 24)

Glutathione *S*-transferase; Protein conformation (Bico, P. (1247) 225)

Liver-type fatty acid binding protein; Titration calorimetry (Rolf, B. (1259) 245)

α_2-Adrenoceptor subtype; [^{3}H]Rauwolscine; [^{3}H]Atipamezole; [^{3}H]RX 821002; Recombinant cell line (Halme, M. (1266) 207)

Ligand-binding protein
Calycin superfamily; Heterogeneous chromophore (Calero, M. (1249) 91)

Ligand-gated pore-forming protein
Cytoplasmic male sterility; Toxin receptor (Siedow, J.N. (1271) 235)

Ligand orientation
Heme protein; NMR, ^{13}C-; (*D. vulgaris*) (Turner, D.L. (1246) 24)

Ligand specificity
FGF receptor 3; Alternative splicing (Scotet, E. (1264) 238)

Ligation
Resonance Raman spectroscopy; Double mutant; Myoglobin; (Porcine) (Anderton, C.L. (1253) 1)

Light/dark cycle
Nitrogen assimilation regulation; Nitrite reductase; Synchronous culture; (Green alga) (Pajuelo, E. (1249) 72)

Light/dark modulation
Chloroplast enzyme; NADP-malate dehydrogenase; Fructose-bisphosphatase; Phosphoribulokinase; Redox equilibrium; Metabolite effect (Faske, M. (1247) 135)

Light harvesting
Antenna complex; LH1; LH2; Circular dichroism; Transmembrane helix; Bacterial photosynthesis; (*Rh. molischianum*); (*Rb. sphaeroides*) (Visschers, R.W. (1230) 147)

Energy transfer; Fluorescence; Domain size; Reaction center; (*Rb. sphaeroides*) (Kramer, H. (1231) 89)

ADMR; Photosynthesis; Purple bacterium; Antenna; Reaction center; (*R. gelatinosus*) (Jirsakova, V. (1231) 313)

Light harvesting antenna
Photosynthesis; Inhomogeneous broadening; Quantasome; Bacteriochlorophyll *b*; (*Rps. viridis*) (Monshouwer, R. (1229) 373)

Light harvesting complex
Exciton migration; Pump and probe beam spectroscopy; Non-linear transmission (Kehrberg, G. (1231) 147)

Photosynthesis; Three-dimensional crystallization; Membrane protein; (*M. squamata*) (Welte, C. (1231) 265)

Light harvesting complex I
Photosystem I; Femtosecond spectroscopy; Fluorescence spectroscopy; Anisotropy; F690; F735; Energy transfer (Pålsson, L.-O. (1230) 1)

Light harvesting complex II
Chlorophyll fluorescence; Nonphotochemical quenching; Xanthophyll cycle; Minor LHC II complex (Härtel, H. (1228) 91)

Chloroplast; Grana margin; Photosystem; Partitioning; Aqueous polymer; Ferredoxin:NADP oxidoreductase; (Spinach thylakoid) (Wollenberger, L. (1230) 10)

Light harvesting protein
Protein phosphorylation; Phosphoserine; Phosphothreonine; Phosphotyrosine; (*R. capsulatus*) (Brand, M. (1231) 169)

Light microscopy
Oxygen; Cultured cell; Electron paramagnetic resonance; Fusinite (Santini, M.T. (1243) 110)

Light scattering
Melittin; Model membrane; Phosphatidylcholine chain length; NMR, ^{31}P- (Faucon, J.-F. (1234) 235)

Auxin; Calcium; ATP; Protoplast; Herbicide resistance (Deshpande, S. (1244) 69)

Carnitine acetyltransferase; Binding; Circular dichroism; Fluorescence; Inhibition (Yan, B. (1253) 175)

Lignin biodegradation
trans-Ferulic acid; *p*-Coumaric acid; Dioxygenase; (*Acinetobacter calcoaceticus*) (Delneri, D. (1244) 363)

Lignin degradation
Manganese (II) peroxidase; Lignin peroxidase; White-rot basidiomycete; (*P. ostreatus*) (Asada, Y. (1251) 205)

Laccase; Phenol oxidase; Multi-copper enzyme; White-rot fungus; (*T. versicolor*) (Jönsson, L. (1251) 210)

Lignin peroxidase
Manganese (II) peroxidase; Lignin degradation; White-rot basidiomycete; (*P. ostreatus*) (Asada, Y. (1251) 205)

White-rot basidiomycete; Structural gene; (*Trametes (Coriolus) versicolor*) (Johansson, T. (1263) 71)

Limited proteolysis
Adrenodoxin reductase; Adrenodoxin; Crosslinking (Warburton, R.J. (1246) 39)

Apoptosis; Calpain; Cleavage site-directed antibody; Protein kinase C (Kikuchi, H. (1269) 253)

Lindane
Phospholipid bilayer; Partition coefficient; Kinetic effect; Calorimetry; Computer simulation (Sabra, M.C. (1233) 89)

Linoleate
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α-Linolenate
Fasting; Linoleate; Polyunsaturate; Pregnancy; (Rat) (Cunnane, S.C. (1255) 113)

Linolenic acid
Lipoxygenase; Plasma membrane; Protoplast; (*Helianthus annuus* L.) (Vianello, A. (1255) 57)

Lipase
Active site; Chemical modification; Mass spectrometry; (*S. hyicus*) (Boots, J.-W.P. (1248) 27)

Cholinesterase; Cloning; (*G. geotrichum*); (*G. candidum*) (Phillips, A. (1252) 305)

Pregastric lipase; Pharyngeal tissue; *N*-Deglycosylation; Amino acid sequence alignment; (Lamb) (De Caro, J. (1252) 321)

Apo B; Lipoprotein; Visceral yolk sac; (Rat fetus) (Plonné, D. (1256) 71)

Isoelectric focusing; Lipopolysaccharide; (*C. viscosum*); (*P. glumae*) (Taipa, M.A. (1256) 396)

Immunochemical; Peptide mapping; (*Geotrichum candidum*) (Jacobsen, T. (1257) 96)

Purification; Fatty acid selectivity; (*V. galamensis*) (Ncube, I. (1257) 149)

Macrocyclic lactone; Microemulsion, water-in-oil (Rees, G.D. (1257) 239)

Calcium binding; Stability; Sequence alignment; (*Pseudomonas* species) (Svendsen, A. (1259) 9)

Phosphonate; Transition state; Inhibition; Triacylglycerol (Mannesse, M.L.M. (1259) 56)

Kinetic resolution; Water-in-oil microemulsion; Organogel; Cryoenzymology; Enantioselectivity (Rees, G.D. (1259) 73)

Lipase isoenzyme
Enzyme kinetics; Lipid *p*-nitrophenyl ester; Mixed micelle; (*C. rugosa*) (Redondo, O. (1243) 15)

Lipid
Gramicidin; Peptide; Membrane; Protein folding (Jaikaran, D.C.J. (1234) 133)

Melittin; Vesicle leakage; Permeability; Calcein; Lipid–peptide interaction (Benachir, T. (1235) 452)

Tyrosinase; Dopachrome tautomerase; Melanosome; Detergent; Melanization; Membrane protein (Jiménez-Cervantes, C. (1243) 421)

Triacylglycerol; Acyl-ester hydrolase; (Sunflower seed) (Teissère, M. (1255) 105)

Icosapentaenoic acid; Docosahexaenoic acid; Docosapentaenoic acid; Interconversion; Endothelium (Achard, F. (1255) 260)

Lipid annulus
Desaturase; Liver microsome; Hydrostatic pressure (Leikin, A. (1256) 13)

Lipid asymmetry
Chloroplast; Thylakoid; Lipid synthesis; Mono(di)galactosyldiacylglycerol (Rawyler, A. (1233) 123)

LIPIDAT
Cerebroside; Glycolipid; Lyotropic; Sphingomyelin; Thermotropic (Koynova, R. (1255) 213)

Lipid bilayer
Ion channel; Calcium ion channel selectivity; Latroinsectotoxin; Latrotoxin (Shatursky, O.Ya. (1233) 14)

Ion channel; Non stochastic distribution (Krasilnikov, O.V. (1233) 105)

Protein-lipid association; Liposome; Erythrocyte sugar transport protein; DSC; Enzyme reconstitution; Membrane protein; (Human) (Naderi, S. (1236) 10)

Peptaibol; Chrysospermin; Channel formation; Voltage-dependent conductance (Grigoriev, P. (1237) 1)

Local anesthetic; Partition coefficient; Membrane; Steric property; Spin label; EPR; Fluorescence (De Paula, E. (1240) 25)

Phospholipid; Phase transition; Sub-main transition; DSC (Jørgensen, K. (1240) 111)

Spontaneous curvature; Headgroup composition; Acyl chain composition; Nonlamellar phase; (*A. laidlawii*) (Österberg, F. (1257) 18)

Lipid bilayer membrane
Ion transport; Iodine; Potential energy barrier; Voltage-clamp (Klotz, K.-H. (1235) 378)

Lipid binding
Protein–lipid interaction; Colipase; HPLC, reverse-phase; (Porcine pancreas) (Rugani, N. (1247) 185)

Lipid composition
C-6 glia; Thioridazine; 2′,3′-Cyclic-nucleotide 3′-phosphohydrolase; Membrane fluidity (Saito, M. (1235) 178)

Lipid domain
Sterol side chain; Cholesterol; Phosphatidylcholine; Sphingomyelin; Monolayer membrane; Sterol–phospholipid interaction (Mattjus, P. (1240) 237)

Lipid droplet
EPA; Carnitine palmitoyltransferase; Morphometry; Heart (Hexeberg, S. (1256) 341)

Lipid emulsion
Prostaglandin E_1; Diffusion; Emulsion; Lipid particle; Release (Yamaguchi, T. (1256) 381)

Lipid hapten
Calcium signal; B lymphocyte; Supported monolayer; Fluidity; Confocal fluorescence microscopy; (Mouse) (Katayama, H. (1266) 191)

Lipid hydration
Sterol; Acylated steryl glucoside; Lipid phase behavior; Freezing; Hexagonal II phase transition; (Plasma membrane) (Webb, M.S. (1239) 226)

Lipid hydroperoxide
Water-soluble antioxidant; Trolox; Vitamin E; Antioxidant activity (Barclay, L.R.C. (1237) 77)

Glutathione peroxidase; Mitochondrion; Oxidative stress; (*Hansenula mrakii*) (Inoue, Y. (1245) 325)

Lipoprotein; Chemiluminescence; Antioxidant; Luminol (Zamburlini, A. (1256) 233)

Lipid interaction
Cholesterol; Phosphatidylcholine; Lateral domain heterogeneity; Monolayer; Epifluorescence microscopy (Slotte, J.P. (1238) 118)

Lipid layer
Vesicle fusion; Langmuir-Blodgett film; Protein immobilization; Atomic force microscopy; Quartz crystal microbalance (Vikholm, I. (1233) 111)

Lipid membrane
Cryptand; Alkali cation transport kinetics; Competitive transport selectivity; pH (Loiseau, A. (1235) 21)

Biomolecular membrane; Ion channel reconstitution (Brutyan, R.A. (1236) 339)

Ionizable mobile carrier; Alkali cation transport kinetics; Competitive transport selectivity; pH; Temperature (Loiseau, A. (1238) 107)

Lipid mixing
SIV/HIV fusion peptide; Lysophosphatidylcholine (Martin, I. (1240) 95)

Lipid monolayer
Membrane structure; Molecular packing; Phosphatidylcholine; Kinetic measurement (Vierl, U. (1234) 139)

Polymer; Membrane; Electrophoresis; Photobleaching; FRAP; Diffusion (Dietrich, C. (1238) 183)

Lipid oxidation
LDL; Second derivative fluorescence spectroscopy; Protein crosslinkage; Three-dimensional fluorescence spectroscopy (Singh, S. (1254) 135)

Lipid particle
Sterol transport; Steryl ester; Steryl-ester hydrolase; Plasma membrane; Terbinafine; (*S. cerevisiae*) (Leber, R. (1234) 119)

Prostaglandin E_1; Lipid emulsion; Diffusion; Emulsion; Release (Yamaguchi, T. (1256) 381)

Lipid–peptide interaction
Melittin; Vesicle leakage; Permeability; Calcein; Lipid (Benachir, T. (1235) 452)

Lipid peroxidation
Hypersensitive response; Thermoluminescence; Fluorescence; (*N. tabacum*) (Stallaert, V.M. (1229) 290)

Redox cycle; Superoxide anion; Mitochondrion; Submitochondrial particle; Respiratory chain; (Rat liver) (Klöhn, P.-C. (1229) 363)

Quercetin; Quercetin monoglucoside; Flavonoid; Antioxidative activity (Ioku, K. (1234) 99)

Erythrocyte; Oxidative stress; Potassium ion leakage; Protoporphyrin; Porphyria (Williams, M. (1236) 81)

Thymocyte; Azothermal initiator; Thiol oxidation (Landi, L. (1239) 207)

Bilirubin; Reactive-Oxygen Species; Antioxidant; Gunn rat (Joshi, M. (1243) 244)

HDL; γ-Radiolysis; Oxygenated free radical; Fluorescence polarization; Cholesterol efflux; Atherosclerosis (Bonnefont-Rousselot, D. (1255) 23)

Squalene; Singlet oxygen; Free radical (Kohno, Y. (1256) 52)

LDL; Hydroperoxide; Aldehyde; NMR (Lodge, J.K. (1256) 130)

LDL; Tryptophan; Fluorescence; Vitamin E (Gießauf, A. (1256) 221)

Oxidized LDL; Ascorbate; Dehydroascorbate; Copper; Iron (Retsky, K.L. (1257) 279)

Antioxidant; Demethyldiisoeugenol; Superoxide anion; Peroxyl radical; Free radical (Ko, F.-N. (1258) 145)

Ubiquinol-10; LDL; Antioxidant; α-Tocopherol; Atherosclerosis (Kontush, A. (1258) 177)

DNA adduct; Liver cell; Antioxidant (Cao, E.-H. (1259) 187)

Copper-induced oxidation; Photosensitive oxidation; LDL; Serum; Cholesterol; (Human); (Rat); (Guinea-pig) (Mosinger, B.J. (1270) 73)

Iron overload; Erythrocyte; Plasma; Antioxidant enzyme; α-Tocopherol; Thiol (Galleano, M. (1271) 321)

Lipid peroxide
Advanced glycosylation end product; Diabetes; Atherosclerosis; Oxidation; (Human) (Dobrian, A. (1270) 26)

Lipid phase behavior
Phospholipid; X-ray diffraction; Interdigitated phase (Cunningham, B.A. (1233) 68)

Sterol; Phospholipid; Ripple phase; X-ray diffraction (Cunningham, B.A. (1233) 75)

Sterol; Acylated steryl glucoside; Lipid hydration; Freezing; Hexagonal II phase transition; (Plasma membrane) (Webb, M.S. (1239) 226)

Lipid phosphorylation
Phosphatidylinositol 3-kinase; Phosphoinositide; Manganese; Phosphatidylinositol 4,5-bisphosphate; Protein phosphorylation (Chauhan, V.P.S. (1267) 139)

Lipid *p*-nitrophenyl ester
Lipase isoenzyme; Enzyme kinetics; Mixed micelle; (*C. rugosa*) (Redondo, O. (1243) 15)

Lipid polymorphism
Capsaicin; Model membrane; DSC; NMR, ^{31}P- (Aranda, F.J. (1234) 225)

X-ray diffraction; DSC; Phospholipid structure; Phase transition; Partition coefficient (Löbbecke, L. (1237) 59)

Lipid–protein complex
Molecular hydrophobicity potential; Hydrophobicity, protein; Apolipoprotein; Amphipathicity; Helix; Interaction energy (Lins, L. (1258) 10)

Lipid–protein interaction
Mitochondrion; Cytochrome *c*; Electron transport (Cortese, J.D. (1228) 216)

Bacteriorhodopsin; Purple membrane; Methyl-substituted alkyl chain; Protein structure (Pomerleau, V. (1234) 221)

Surface balance; Langmuir film; Dipalmitoylphosphatidylcholine; Dipalmitoylphosphatidylglycerol (Taneva, S.G. (1236) 185)

Monoalide; Mixed micelle; Phospholipid inhibition; Site-directed mutagenesis; (*N. naja naja*) (Bianco, I.D. (1250) 197)

Lipid solubility
Albumin; Phospholipid; Detergent; Mixed micelle; Phospholipid; Aggregation (Meyuhas, D. (1234) 203)

Lipid synthesis
Chloroplast; Thylakoid; Mono(di)galactosyldiacylglycerol; Lipid asymmetry (Rawyler, A. (1233) 123)

Lipid transport
Octadecyl Rhodamine B; Membrane potential; Large unilamellar vesicle (Leenhouts, J.M. (1237) 121)

Apolipoprotein; Cerebrospinal fluid; Lipoprotein particle (Borghini, I. (1255) 192)

Lipid transporter
Phospholipid; Vesicle (Bruckheimer, E.M. (1235) 147)

Lipid vesicle
Protein-lipid binding; Polyacrylamide gel electrophoresis; Micelle; Cholera toxin; Ganglioside; Streptavidin; Annexin (Arnold, M. (1233) 198)

Captured volume; Vesicle morphology; Chloride electrode (Gruber, H.J. (1240) 266)

Lipogenase gene
Inflammation; Arachidonic acid; Atherosclerosis; (Mouse) (Willems van Dijk, K. (1259) 4)

Lipogenesis
Starvation; Tricarboxylate carrier; Reconstitution; Mitochondrion; (Rat liver) (Zara, V. (1239) 33)

Lipogenic enzyme gene expression
Insulin receptor; Polyunsaturated fatty acid; (Rat) (Iritani, N. (1255) 1)

α-Lipoic acid
Heart; Mitochondrion; Dihydrolipoic acid; Superoxide radical; Ubisemiquinone (Schönheit, K. (1271) 335)

Lipolysis
Phospholipase A_2; Competitive inhibition; Interfacial catalysis (De Haas, G.H. (1257) 87)

Adipocyte; cAMP-dependent protein kinase; Inhibitor; Insulin; Phosphodiesterase (Eriksson, H. (1266) 101)

Lipopolysaccharide
Pulmonary surfactant; Endotoxic shock; Type II pneumocyte; Phosphatidylcholine secretion (Romero, C. (1256) 305)

Lipase; Isoelectric focusing; (*C. viscosum*); (*P. glumae*) (Taipa, M.A. (1256) 396)

Thymidine kinase; cyclic AMP; Macrophage (Okada, F. (1265) 201)

Spin trapping; EPR; Nitric oxide; Dithiocarbamate; (Mice) (Komarov, A.M. (1272) 29)

Lipoprotein
Vitellogenin; (Chicken oocyte) (Yamamura, J.-i. (1244) 384)

Antioxidant; Hydroperoxide; Radical; Co-oxidation; (Mammalian) (Schnurr, K. (1254) 66)

Cholesteryl ester transfer protein; Reverse cholesterol transport (Ohnishi, T. (1254) 117)

Endosome; Lysosome; Triacylglycerol lipase; Cholesteryl ester hydrolase; Estrogen; Atherosclerosis (Fu, D. (1254) 267)

Human CETP; CETP; Transgenic mice; HDL cholesterol; HDL particle size; HDL_1 (Dinchuk, J. (1255) 301)

Cholesterol peroxidation; Cholest-3,5-dien-7-one; Digitonin precipitation (Hahn, M. (1255) 341)

Apo B; Lipase; Visceral yolk sac; (Rat fetus) (Plonné, D. (1256) 71)

Lipoprotein lipase; Lactoferrin; Chylomicron; Remnant; Liver; Cholesterol; Hepatic lipase; Hepatocyte; Phospholipase A_1; (Transgenic mouse) (Chang, S. (1256) 81)

Lipid hydroperoxide; Chemiluminescence; Antioxidant; Luminol (Zamburlini, A. (1256) 233)

LDL; Oxidized LDL; Endothelial cell; Toxicity; Atherogenesis; Phospholipid hydrolysis (Schmitt, A. (1256) 284)

Modification; Apolipoprotein B; Thromboplastin; Inhibition; Thrombosis (Ettelaie, C. (1257) 25)

Magnesium; Apolipoprotein; Gene expression; Liver; (Rat) (Nassir, F. (1257) 125)

Bile acid; Cholesterol; Hyodeoxycholic acid; α-Hyocholic acid; Sterol metabolism (Cohen-Solal, C. (1257) 189)

Bile acid; Binding protein; Immunoprecipitation; Photoaffinity labeling; Serum, human (Kramer, W. (1257) 230)

Cholesteryl ester transfer protein; Reverse cholesterol transport (Takahashi, F. (1258) 70)

Aging; Gene expression; Apolipoprotein A-I (Shah, G.N. (1259) 277)

Atherosclerosis; Cell division; Growth; Platelet-derived growth factor; Arterial smooth muscle cell; Fibroblast (Björkerud, S. (1268) 237)

Lipoprotein (a)
N-Acetylcysteine; LDL composition; LDL function; Diabetes (Gilligan, S. (1254) 187)

Apolipoprotein(a); Kringle; Polymorphism, apo A; Mutation; Atherothrombosis (Scanu, A.M. (1256) 1)

Lipoprotein lipase
Aggregation; Monomer; Dimer; Hyperchylomicronemia (Masuno, H. (1254) 30)

Glycosylation; Dimerization; Heparin affinity (Park, J.-W. (1254) 45)

TGF-β2; LPL mRNA; Cytokine; (Rat mesenchymal heart cell) (Friedman, G. (1254) 140)

Cystine diet; Hepatic lipase; HDL_1; Gene expression; (Rat) (Benhizia, F. (1255) 50)

Hepatic lipase; Apolipoprotein C-II; Evolution (Lindberg, A. (1255) 205)

Lipoprotein; Lactoferrin; Chylomicron; Remnant; Liver; Cholesterol; Hepatic lipase; Hepatocyte; Phospholipase A_1; (Transgenic mouse) (Chang, S. (1256) 81)

Lipoprotein particle
Apolipoprotein; Cerebrospinal fluid; Lipid transport (Borghini, I. (1255) 192)

Lipoprotein secretion
Reverse cholesterol transport; Cholesterol efflux; HDL; LDL; HDL, preβ; HepG2 cell; Fibroblast; (Human) (Sviridov, D. (1256) 210)

Liposomal targeting
Liposome; Antibody; Liposome-antibody conjugation; Poly(ethylene glycol)-modified lipid (Shahinian, S. (1239) 157)

Liposome
Cytochrome *b*-559; Membrane orientation; Membrane potential; NADPH oxidase (Koshkin, V. (1229) 329)

Membrane protein; Reconstitution; Energy transduction; Proteoliposome (Rigaud, J.-L. (1231) 223)

Transhydrogenase; Proton translocation; Mitochondrion; Membrane protein (Sazanov, L.A. (1231) 304)

Organic cation; Tryptamine; Surface potential; Inhibition; Brush-border membrane; (Rat intestine) (Sugawara, M. (1234) 22)

Immunoliposome; Antibody; Poly(ethylene glycol); Drug delivery system (Maruyama, K. (1234) 74)

Immunoliposome; Monoclonal antibody; Ovarian carcinoma; Targeted drug delivery; (Human) (Nässander, U.K. (1235) 126)

Phosphatidylserine; Opsonin; Complement; Erythrocyte; Reticuloendothelial system (Liu, D. (1235) 140)

Glycosphingolipid; Ganglioside; Freeze-etch; Electron microscopy (Palestini, P. (1235) 221)

Surface layer, crystalline; S layer; Cell surface protein; Immobilization; (*B. coagulans*) (Küpcü, S. (1235) 263)

Fusion; Aggregation; Interdigitation; Ethanol; Vesicle (Komatsu, H. (1235) 270)

Transfection; Cationic liposome; Gene therapy; Endocytosis (Farhood, H. (1235) 289)

Membrane fusion; Endocytosis; Cationic liposome (Wrobel, I. (1235) 296)

CCCP; Valinomycin; Membrane; Ion transport; Proton transport; Temperature jump (Prabhananda, B.S. (1235) 323)

Protein-lipid association; Erythrocyte sugar transport protein; DSC; Enzyme reconstitution; Lipid bilayer; Membrane protein; (Human) (Naderi, S. (1236) 10)

Pyruvate kinase; Phosphatidylserine; (Bovine heart) (Dąbrowska, A. (1236) 299)

Placenta; Brush-border membrane; Fluidity; Transition temperature; Glucose transport (Ghosh, P.K. (1236) 317)

Antimicrobial agent; Antifungal agent; Peptide; Indolicidin (Ahmad, I. (1237) 109)

Interdigitation; Ethanol; Permeability; Phase separation; Vesicle (Komatsu, H. (1237) 169)

Skin; Penetration; Confocal laser scanning microscopy; Calorimetry (Zellmer, S. (1237) 176)

Positron emission tomography (PET); Long-circulating liposome; Tumor imaging (Oku, N. (1238) 86)

Drug delivery; Permeability; Cancer; Stearylamine; Multidrug resistance (Webb, M.S. (1238) 147)

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Liposomal targeting; Antibody; Liposome-antibody conjugation; Poly (ethylene glycol)-modified lipid (Shahinian, S. (1239) 157)

Oxidation; Drug delivery; Polycarbonate membrane (Chow, C.-Y. (1239) 168)

Dipalmitoylphosphatidylcholine; Calcium ion; Binding constant; Electrophoresis; Shear plane (Satoh, K. (1239) 239)

Polyamine; Phosphatidylcholine; Multilamellar liposome; Spermine; EPR (Momo, F. (1240) 89)

Chemical and physical stability; Lysophospholipid; Fatty acid; Micelle; Chemical hydrolysis (Zuidam, N.J. (1240) 101)

Remote loading; pH gradient; Calcium acetate gradient; 5(6)-Carboxyfluorescein; Nalidixic acid (Clerc, S. (1240) 257)

Drug delivery; Liposome clearance; Liver perfusion; Kupffer cell (Liu, D. (1240) 277)

ISCOM; Vaccine; Subunit; Vehicle; Adjuvant (Kersten, G.F.A. (1241) 117)

Endocytosis; FITC-dextran; Octadecyl rhodamine B; Lymphocyte; Jurkat cell; Poly(ethylene oxide)-lipid (Higashi, N. (1243) 386)

Alveolar type II cell; Surfactant protein C; Surfactant protein A; Phospholipid (Pinto, R.A. (1255) 16)

Phytosterol; Macrophage; ACAT (Sato, Y. (1257) 38)

Lung surfactant secretion; Lamellar body; Membrane fusion; Annexin (Liu, L. (1259) 166)

Phospholipase A_2; Dehydration (Oliver, A.E. (1267) 92)

Liposome-antibody conjugation
Liposome; Liposomal targeting; Antibody; Poly(ethylene glycol)-modified lipid (Shahinian, S. (1239) 157)

Liposome clearance
Drug delivery; Liposome; Liver perfusion; Kupffer cell (Liu, D. (1240) 277)

Liposome-DNA complex
Cationic liposome; DNA; Cryo-transmission electron microscopy; Electron microscopy (Gustafsson, J. (1235) 305)

Liposome fusion
Lung surfactant secretion; Exocytosis; Synexin polymerization (Liu, L. (1254) 274)

Liposome leakage
Carboxyfluorescein; Channel; Theory; Membrane-active agent; Mastoparan X (Schwarz, G. (1239) 51)

Liposome stability
N-Acylphosphatidylethanolamine; Membrane fluidity; Ganglioside; Serum protein; Serum–liposome interaction (Mercadal, M. (1235) 281)

Liposome targeting
Doxorubicin; PEG-coated liposome; Tumor cell targeting; Folate-binding protein (Lee, R.J. (1233) 134)

Sterically stabilized liposome; Poly(ethylene glycol); Doxorubicin; Immunoliposome; Selective toxicity; Toxicity (Allen, T.M. (1237) 99)

Liposynthesis
Ethanol; Glycerolipid; Acylation; Reticulocyte; (Rat) (Le Petit-Thevenin, J. (1257) 103)

Ethanol; Glycerolipid; Phosphatidate phosphohydrolase; Reticulocyte; (Rat) (Le Petit-Thevenin, J. (1257) 111)

Lipoteichoic acid
Calcium; Magnesium; (*S. sanguis*) (Rose, R.K. (1245) 94)

Lipoxin
Lipoxygenase; Thrombocyte; Leukotriene C_4; Amphibian; (*R. catesbeiana*) (Gronert, K. (1259) 203)

Lipoxygenase
Protoplast; Transient expression; Coelectroporation; Monoclonal antibody; (*L. culinaris*) (Maccarrone, M. (1243) 136)

Arachidonic acid; Anandamide; Arachidonylethanolamide; Cannabinoid (Ueda, N. (1254) 127)

Linolenic acid; Plasma membrane; Protoplast; (*Helianthus annuus* L.) (Vianello, A. (1255) 57)

Erythrocyte; Leukotriene D_4; 12-Hydroxyicosatetraenoic acid; (Amphibian) (Gronert, K. (1255) 311)

Inhibitor; Rat skin; Peroxidation (Lomnitski, L. (1255) 351)

15-HETE; Binding; RBL-1 cell; Subcellular (Kang, L.-T. (1256) 297)

Antisense RNA; Protoplast; Electroporation; RNA; (Lentil); (*Lens culinaris*) (Maccarrone, M. (1259) 1)

Anandamide; Cannabinoid; Icosanoid; Cerebral lipid; Fatty acid-amide; (Brain) (Hampson, A.J. (1259) 173)

Thrombocyte; Leukotriene C_4; Lipoxin; Amphibian; (*R. catesbeiana*) (Gronert, K. (1259) 203)

5-Lipoxygenase
Arachidonic acid metabolism; Icosanoid; Gene expression; Mast cell; Thromboxane (Macchia, L. (1257) 58)

Liquid chromatography-thermospray-mass spectrometry
ω-Hydroxydocosahexaenoic acid; ω-Hydroxyicosatetraenoic acid; ω-Oxidation; Human colonic, well-differentiated adenocarcinoma (Shimizu, S. (1256) 293)

Lithocholate
Binding affinity; Binding site; Equilibrium dialysis; Serum albumin; (Human) (Takikawa, H. (1244) 277)

Liver
Glucose-6-phosphatase; Microsome; Kidney; Thyroid (Voice, M.W. (1231) 176)

Zinc; Metallothionein; Tumor; Inflammation; Stress (Takeda, A. (1243) 325)

Ethanol; Polyamine; Transglutaminase; (Rat) (Sessa, A. (1245) 371)

Ethanol; Lysosome; Protein degradation; Proteinase; Trafficking (Kharbanda, K.K. (1245) 421)

Biliary lipid; Biliary cholesterol; Diosgenin; (Rat) (Roman, I.D. (1255) 77)

Probucol; Clofibrate; ACAT; Cholesteryl ester hydrolase; (Rat) (Shand, J.H. (1255) 123)

Acetyl-CoA hydrolase; Propionyl-CoA hydrolase; Sulfur-substituted fatty acid; Mitochondrion; Peroxisome; NADH; (Rat) (Garras, A. (1255) 154)

Adipose tissue; Intestinal mucosa; Obesity; Glycerolipid formation; Triacylglycerol; Phosphatidate phosphohydrolase (Jamdar, S.C. (1255) 237)

Lecithin:cholesterol acyltransferase; Apo A-I; TGF-β; IL-6; Regulation; mRNA; Dexamethasone; HepG2 cell (Skretting, G. (1255) 267)

Lipoprotein; Lipoprotein lipase; Lactoferrin; Chylomicron; Remnant; Cholesterol; Hepatic lipase; Hepatocyte; Phospholipase A_1; (Transgenic mouse) (Chang, S. (1256) 81)

Vitamin E; Tocopherol; Uptake; Central nervous system; Peripheral nervous system (Clément, M. (1256) 175)

Cholyl-lysylfluorescein; Glycocholate; Biliary lipid; Bile acid (Baxter, D.J. (1256) 374)

Magnesium; Apolipoprotein; Gene expression; Lipoprotein; (Rat) (Nassir, F. (1257) 125)

Carnitine palmitoyltransferase; Fatty acid oxidation; Malonyl-CoA; Enzyme inhibition; Temperature effect; Mitochondrion (Kashfi, K. (1257) 133)

L-FABP expression; Pregnancy; Lactation (Besnard, P. (1258) 153)

α-Glycerol-3-phosphate dehydrogenase; cDNA cloning; Nucleotide sequence; (Human) (Menaya, J. (1262) 91)

Ornithine transcarbamylase; Orotic acid; Transgene; Small intestine; (spf-ash Mouse, sparse-fur with abnormal skin and hair) (Saheki, T. (1270) 87)

NMR, ^{31}P-; Cirrhosis; Phospholipid; (Human) (Taylor-Robinson, S.D. (1272) 113)

Liver acinus
Redox gradient; Glucagon perfusion; (Rat) (Sato, B. (1268) 20)

Liver cell
DNA adduct; Lipid peroxidation; Antioxidant (Cao, E.-H. (1259) 187)

Liver microsome
Lipid annulus; Desaturase; Hydrostatic pressure (Leikin, A. (1256) 13)

Liver perfusion
Drug delivery; Liposome; Liposome clearance; Kupffer cell (Liu, D. (1240) 277)

Prostaglandin $F_{2\alpha}$; Nitric oxide (Weidenbach, H. (1245) 181)

Liver regeneration
ATP synthase; Mitochondrion; Oxidative phosphorylation (Guerrieri, F. (1272) 95)

Liver stellate cell
Vitamin A; Retinyl ester hydrolase; (Rat) (Azaïs-Braesco, V. (1259) 271)

Liver transplantation
Polyamine metabolism; Putrescine administration; Cold ischemia; Ischemia; Regeneration; (Rat) (Terakura, M. (1245) 207)

Liver-type fatty acid binding protein
Titration calorimetry; Ligand binding (Rolf, B. (1259) 245)

LLC-PK1 cell
MDCK cell; OK cell; Endocytosis; Exocytosis; Fluidity (Giocondi, M.-C. (1234) 197)

LLPC
Phase partition; Conformational change; Ligand binding; Antibody; Enzyme (Wingren, C. (1244) 209)

Local anesthetic
Partition coefficient; Membrane; Steric property; Lipid bilayer; Spin label; EPR; Fluorescence (De Paula, E. (1240) 25)

Localization
Tryptase; BPTI; Serine protease; Mast cell (Fiorucci, L. (1243) 407)

12(*S*)-HETE; Receptor (Herbertsson, H. (1244) 191)

cDNA; Gene expression; Recombinant protein; Transcription; Translation; Polymorphism; Atomic structure (Lundström, K. (1251) 1)

Local stability
Cytochrome *c*; Amino acid substitution, His-26 to Val; Amino acid substitution, His-33 to Phe; Double mutant; Global stability (Qin, W. (1252) 87)

Long-chain triacylglycerol
Sucrase-isomaltase; mRNA; Dietary carbohydrate; Medium-chain triacylglycerol; Jejunum; (Rat) (Yasutake, H. (1243) 270)

Long-circulating liposome
Liposome; Positron emission tomography (PET); Tumor imaging (Oku, N. (1238) 86)

Longitudinal muscle-myenteric plexus
Cyclohexyl adenosine; 4-Aminopyridine; α-Dendrotoxin (Kelly, G. (1266) 131)

Long range H-bonding
Non-enzymatic glycation; Glutathione peroxidase (Baldwin, J.S. (1247) 60)

Long-term cell death
Electropermeabilization; Cell survival; Short-term cell death; Chinese hamster ovary cell (Gabriel, B. (1266) 171)

Long-term culture
Cultured hepatocyte; Hormone; Pyruvate; (Rat) (Tomita, Y. (1243) 329)

Long-wavelength pigment
Picosecond transient absorption; Energy transfer; Trapping; Photosystem II; Core complex (Schelvis, J.P.M. (1230) 165)

Lovastatin
Simvastatin; Pravastatin; Sterol synthesis; HMG-CoA reductase inhibitor; Transport; (Human cell) (Van Vliet, A.K. (1254) 105)

Low-frequency stimulation
Actin; Contractile activity; Enzyme binding; Glycolysis; Hexokinase; Mitochondrion; Phosphofructokinase; Skeletal muscle (Parra, J. (1251) 154)

Low molecular weight protease
Snake venom; Metalloprotease; α-Fibrin(ogen)ase; Non-hemorrhagic protease; (*Agkistrodon halys brevicaudus*) (Fujimura, S. (1243) 94)

Low temperature
Photosystem II; P680; Electron transfer; Absorbance difference spectroscopy (Hillmann, B. (1231) 76)

LOX
Plant lipoxygenase; Barley; cDNA cloning; Inverse PCR cloning; (*Hordeum vulgare* L.) (Van Mechelen, J.R. (1254) 221)

Lp A-I
LDL; Copper-mediated oxidation; HDL; Lp A-I:AII; Albumin (Decossin, C. (1255) 31)

Lp A-I:AII
LDL; Copper-mediated oxidation; HDL; Lp A-I; Albumin (Decossin, C. (1255) 31)

LPL mRNA
Lipoprotein lipase; TGF-β2; Cytokine; (Rat mesenchymal heart cell) (Friedman, G. (1254) 140)

LTC_4 synthase
Cysteinyl leukotriene; Experimental glomerulonephritis (Petric, R. (1254) 207)

Luciferase
Bioluminescence; Coenzyme A; Adenine nucleotide; (Firefly) (Ford, S.R. (1252) 180)

Luft's disease
Mitochondrial medicine; mtDNA; Aging (Luft, R. (1271) 1)

Luminol
Lipid hydroperoxide; Lipoprotein; Chemiluminescence; Antioxidant (Zamburlini, A. (1256) 233)

Lung
Fibroblast; Type II cell; Triacylglycerol; Surfactant (Torday, J. (1254) 198)

Maillard reaction; Pentosidine; Fluorescence; Collagen; Aging (Bellmunt, M.J. (1272) 53)

Lung development
Alveolar type II cell; Fetal lung; Glucocorticoid; Epidermal growth factor; Organ culture (Tangada, S.D. (1268) 191)

Lung surfactant secretion
Exocytosis; Synexin polymerization; Liposome fusion (Liu, L. (1254) 274)

Lamellar body; Liposome; Membrane fusion; Annexin (Liu, L. (1259) 166)

Luteinizing hormone
Secondary structure prediction; Amino-acid substitution tables; Gonadotropin; Thyrotropin (Wako, H. (1247) 104)

Luteinizing hormone receptor
MHC class I antigen; Fluorescence photobleaching recovery; Time-resolved phosphorescence anisotropy; Rotational dynamics (Philpott, C.J. (1235) 62)

LUV
Membrane-active antibiotic; Pyranine; Ion channel; Osmotic stress; Amphotericin B (Wolf, B.D. (1238) 156)

Lymph
Docosahexaenoic acid; Icosapentaenoic acid; Absorption; (Rat) (Ikeda, I. (1259) 297)

Lymphocyte
Cell volume; Glutamine; Glucose; Macrophage (Wu, G. (1243) 343)

Endocytosis; Liposome; FITC-dextran; Octadecyl rhodamine B; Jurkat cell; Poly(ethylene oxide)-lipid (Higashi, N. (1243) 386)

Fatty acid composition; Membrane fluidity; Dietary lipid; Fish oil (Yaqoob, P. (1255) 333)

LDL receptor; Burkitt's lymphoma cell; Flow cytometry; Apoptosis (Yen, C.F. (1257) 47)

PP3; GlyCAM-1; Mammary gland; Mastitic inflammation; Adhesion molecule (Johnsen, L.B. (1260) 116)

Lymphocyte activation
Gene expression; Transcription factor; Interleukin 2; Reactive oxygen species; Cellular redox state (Goldstone, S.D. (1263) 114)

Lymphocyte, B-
Glycosyltransferase; Differentiation; Carbohydrate antigen; Gb3/CD77 (Taga, S. (1254) 56)

Lymphocyte proliferation
Nitric oxide; *S*-Nitrosylation; Advanced glycosylation end products (AGE); Glutathione; cGMP; Glucose transport; (Human) (Farkas, J. (1245) 305)

Lymphoid cell
p-Aminobenzoic acid; Arachidonic acid; Fatty acid; Beta-oxidation; Jurcat cell (Barbieri, B. (1257) 157)

Lymphoma
Polyunsaturated fatty acid; Desaturation; Elongation; Cell differentiation; Leukemia; (Human) (Marzo, I. (1257) 140)

Lymphoma cell
Positron emission tomography (PET); Tumor metastasis; Protein kinase C; Cell trafficking; RAW117 large cell lymphoma (Koike, C. (1238) 99)

Lymphotoxin
Cytokine; Radiation; Manganous superoxide dismutase; Tumor necrosis factor; Oxidative stress (Wong, G.H.W. (1271) 205)

Lyophilization
FTIR; Secondary structure; Recombinant human albumin; Moisture-induced aggregation; Protein stability (Costantino, H.R. (1253) 69)

Lyotropic
Cerebroside; Glycolipid; LIPIDAT; Sphingomyelin; Thermotropic (Koynova, R. (1255) 213)

L-Lysine homopolymer
Leaf proteinase; Cooperative inhibition (Amato, C. (1249) 86)

Lysine modification
Oxidized lipid/protein reaction; Polyunsaturated fatty acid oxidation; Oxidative stress; Fluorescence production; Pyrrole production and polymerization (Zamora, R. (1258) 319)

Lysis
Fusion; Erythrocyte; HIV; AIDS; HIV glycoprotein 41 000 (gp41); Membrane; Red cell; Peptide; Melittin; Calcium ion (Mobley, P.W. (1271) 304)

Lyso-PAF
Acetyltransferase; PAF; Platelet-activating factor; Plasmalogen; Transacylase (Blank, M.L. (1254) 295)

Lysophosphatidic acid
Cyclopropane; Cyclic phosphate; DNA polymerase α family; DNA replication (Murakami-Murofushi, K. (1258) 57)

Lysophosphatidylcholine
SIV/HIV fusion peptide; Lipid mixing (Martin, I. (1240) 95)

Coenzyme A; Acyl-CoA; Lysophosphatidylinositol; Phosphatidylinositol; Phosphatidylcholine (Sugiura, T. (1255) 167)

Lysophosphatidylinositol
Coenzyme A; Acyl-CoA; Lysophosphatidylcholine; Phosphatidylinositol; Phosphatidylcholine (Sugiura, T. (1255) 167)

Lysophospholipase-transacylase
Enzyme characterization; Phospholipase; Virulence factor; (*C. albicans*) (Mirbod, F. (1257) 181)

Lysophospholipid
Liposome; Chemical and physical stability; Fatty acid; Micelle; Chemical hydrolysis (Zuidam, N.J. (1240) 101)

Surfactant-associated protein C, SP-C; Palmitoylation; Surface activity; Phospholipid; pH (Qanbar, R. (1255) 251)

Lysosomal enzyme
Mannose 6-phosphate receptor; Receptor recycling; Sorting (Hille-Rehfeld, A. (1241) 177)

α-Galactosidase; Enzyme activity; (Coffee bean) (Zhu, A. (1247) 260)

Acid β-glucosidase; Gene regulation; Promoter; (Human) (Doll, R.F. (1261) 57)

Lysosome; Mannose 6-phosphate receptor; Ubiquitin; Caco-2 cell (Zhang, Y. (1267) 15)

Lysosomal storage disease (Gieselmann, V. (1270) 103)

Lysosomal storage disease
α-L-Fucosidase; Isoform spectrum; Intracellular storage; Fibroblast; (Human skin) (Beyer, E. (1270) 7)

Lysosomal enzyme (Gieselmann, V. (1270) 103)

Lysosome
Transport; Sulfate; Membrane vesicle (Koetters, P.J. (1235) 79)

Transport; Cysteine; Carrier protein; Histidine; Diethyl pyrocarbonate (Pisoni, R.L. (1236) 23)

β-*N*-acetylhexosaminidase; Peptide antiserum; HL-60 (Martino, S. (1243) 489)

Sulfate transport; Proteoliposome (Koetters, P.J. (1244) 311)

Liver; Ethanol; Protein degradation; Proteinase; Trafficking (Kharbanda, K.K. (1245) 421)

Endosome; Lipoprotein; Triacylglycerol lipase; Cholesteryl ester hydrolase; Estrogen; Atherosclerosis (Fu, D. (1254) 267)

Lysosomal enzyme; Mannose 6-phosphate receptor; Ubiquitin; Caco-2 cell (Zhang, Y. (1267) 15)

Tacrine; Physostigmine; Thymocyte; Neuroblastoma cell; Alzheimer's disease (Dell'Antone, P. (1270) 137)

L5178Y subline
Topoisomerase I; Phosphorylation; Scleroderma antibody; Camptothecin (Staron, K. (1260) 35)

Lysyl hydroxylase
cDNA; Molecular cloning; mRNA distribution; Baculovirus vector; (Rat) (Armstrong, L.C. (1264) 93)

Lysyl oxidase
cDNA; Polymerase chain reaction; (Rat) (Trackman, P.C. (1260) 355)

M

Macrocyclic lactone
Lipase; Microemulsion, water-in-oil (Rees, G.D. (1257) 239)

Macromolecular crowding
Lens protein; γ-Crystallin; Rotational diffusion; Self-association; Protein–protein interaction (Stevens, A. (1246) 82)

Macromolecule transfer
Electric field mediation; Electroloading; Cell wall; (Yeast) (Ganeva, V. (1240) 229)

Macrophage
Cell volume; Glutamine; Glucose; Lymphocyte (Wu, G. (1243) 343)

U-937 cell; fMLP; Superoxide ion; Fura-2; Dihydrorhodamine-123; Rhodamine-123 (Bueb, J.-L. (1244) 79)

Macrophage colony-stimulating factor (M-CSF); Monocyte; Cholesterol; Neutral cholesterol esterase (Ishii, I. (1254) 51)

Cyclooxygenase 2; Non steroidal anti-inflammatory drug; Adhesion; Prostaglandin (Tordjman, C. (1256) 249)

Liposome; Phytosterol; ACAT (Sato, Y. (1257) 38)

Atherosclerosis; Reverse cholesterol transport; Cholesterol efflux; Cholesterol uptake; Smooth muscle cell; HepG2 cell (Stein, O. (1257) 174)

Heparin; Acetyl-LDL; ACAT (Yoshinari, M. (1259) 155)

LDL, native; Acetyl-LDL; Arachidonic acid; Icosanoid; Cholesteryl ester; Phospholipid (Pollaud, C. (1259) 211)

Cholesterol efflux; Smooth muscle cell; Erythrocyte; HDL; Apolipoprotein A-I (Li, Q. (1259) 227)

Hyperbaric oxygenation; Nitric oxide synthetase (Kurata, S.-I. (1263) 35)

Oligonucleotide conjugate; Protozoan parasite; Drug delivery; (*Leishmania amazonensis*) (Mishra, R.K. (1264) 229)

NADPH oxidase; gp91-phox; Interleukin-4; (Swine) (Zhou, Y. (1265) 40)

Lipopolysaccharide; Thymidine kinase; cyclic AMP (Okada, F. (1265) 201)

Okadaic acid; Annexin; Cell differentiation (Sato, E.F. (1266) 23)

HDL; Apolipoprotein A-I; Apolipoprotein A-II; Cholesterol efflux (Skarlatos, S.I. (1270) 19)

Macrophage colony-stimulating factor (M-CSF)
Monocyte; Macrophage; Cholesterol; Neutral cholesterol esterase (Ishii, I. (1254) 51)

Macrophage migration inhibitory factor
Glutathione; NMR; (Rat liver) (Nishihira, J. (1247) 159)

Macrophage recognition
Scavenger receptor; Sialosaccharide; Oxidized cell; LDL; Glycophorin; (Erythrocyte) (Beppu, M. (1268) 9)

Madin-Darby canine kidney
Alkylglycerol; Arachidonic acid; Monoglyceride; Phorbol myristate acetate; Protein kinase C (Robinson, M. (1254) 361)

Magainin peptide
Ion channel; Cytolysis; Eukaryotic cell; Flow cytometry; Propidium iodide; Anti-microbial peptide (Haimovich, B. (1240) 149)

Magnesium
Lipoteichoic acid; Calcium; (*S. sanguis*) (Rose, R.K. (1245) 94)

Apolipoprotein; Gene expression; Lipoprotein; Liver; (Rat) (Nassir, F. (1257) 125)

Cytosolic free calcium ion concentration; Vascular smooth muscle; Calcium (Zhu, Z. (1265) 89)

Ischemia; Intracellular sodium; Reperfusion; Calcium, free (Dowd, T.L. (1272) 133)

Magnesium(II)
Nucleoside diphosphosugar; ADP-ribose; CDP-choline; Pyrophosphohydrolase; Nucleotide pyrophosphatase; Phosphodiesterase-I; Manganese(II); (Rat liver) (Canales, J. (1246) 167)

Magnesium inflow
Hepatocyte; Calcium inflow; Vasopressin; Thapsigargin; Lanthanide ion; (Rat) (Fernando, K.C. (1268) 97)

Magnesium ion
Palmitic acid; Protonophore; Mitochondrial membrane; Phospholipid bilayer; Oxidative phosphorylation (Shinohara, Y. (1228) 229)

Sodium ion; Antiport; Amiloride; Protein kinase C; (Rat erythrocyte) (Günther, T. (1234) 105)

Magnesium ion-dependent topoisomerase
Polyoma large T antigen; DNA relaxation; Camptothecin; Scleroderma (Marton, A. (1262) 59)

Magnetic field effect
D1-D2-cytochrome *b*-559 complex; Photosystem II; Radical pair mechanism; Temperature dependence; Absorbance difference spectra (Van der Vos, R. (1228) 73)

Exchange interaction; Mutant; Photosynthesis; Reaction center (Van der Vos, R. (1230) 51)

Maillard reaction
Chemiluminescence; Enolization; Glycation; Hydrogen peroxide; Pyrone hydroperoxide (Lertsiri, S. (1245) 278)

Non-enzymatic glycosylation; Collagen; Plasma protein; Diabetes; Aging (Portero-Otin, M. (1247) 74)

Lung; Pentosidine; Fluorescence; Collagen; Aging (Bellmunt, M.J. (1272) 53)

Major basic protein
Eosinophil; RACE; PCR; cDNA cloning; (Rat) (Nittoh, T. (1264) 261)

Major intrinsic protein (MIP)
ATPase, P-type; Protein; DNA sequence; Cyanobacterium; (*Synechococcus*) (Kashiwagi, S. (1237) 189)

Malaria
Protein kinase, cyclic AMP-dependent; Catalytic subunit; Parasitic protozoa; Sequence analysis; (*P. yoelii*) (Saito-Ito, A. (1269) 1)

Malaria parasite
Dihydroorotate dehydrogenase; Mitochondria; (*P. falciparum*) (Krungkrai, J. (1243) 351)

Malate dehydrogenase
Phospholipid; Phosphatidylethanolamine; Head group specificity; Bilayer; (*Mycobacterium smegmatis*) (Imai, T. (1246) 189)

MALDI-MS
Phospholipase D; Phospholipid; Transphosphatidylation; (*Streptomyces*) (Carrea, G. (1255) 273)

Malignant transformation
Glycoprotein; *N*-Glycan chain; Structural alteration; (Rat normal cell); (Rat tumor cell) (Goulut-Chassaing, C. (1244) 30)

Malonyl-CoA
Carnitine palmitoyltransferase; Fatty acid oxidation; Enzyme inhibition; Temperature effect; Mitochondrion; Liver (Kashfi, K. (1257) 133)

Malonyl transferase
Acyl carrier protein; Polyketide synthase; 4'-Phosphopantetheine; Electrospray mass spectrometry; (*Streptomyces*) (Crosby, J. (1251) 32)

Mammal
Enzyme characterization; Sphingomyelin; Sphingomyelin analog; Neutral pH-optimum sphingomyelinase; Structure–activity relationship (Lister, M.D. (1256) 25)

Mammalian cell
Electroporation; DNA break; Electric charge; Current duration (Meaking, W.S. (1264) 357)

Mammary epithelial cell
Milk fat globule membrane; cDNA cloning; Glycoprotein antigen; (Bovine milk) (Aoki, N. (1245) 385)

Mammary gland
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Man-9
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Mast cell proteinase
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Mechanotransduction
Periodontal ligament fibroblast; Mechanical stretching; GTPase, small; Rho; Rab (Basdra, E.K. (1268) 209)

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Methylmalonyl-CoA mutase
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1-Methyl-4-phenylpyridinium (MPP^+)
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κ-Casein; Platelet aggregation; (Sheep) (Qian, Z.-Y. (1244) 411)

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Mitochondrial encephalomyopathy
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Mitochondrial disease; Treatment; Pharmacotherapy (Peterson, P.L. (1271) 275)

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Mitochondrial protein
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Calcium ion-dependent signalling; Mitochondrial dysfunction (Hoek, J.B. (1271) 93)

Autoimmune disease; Molecular mimicry; Mitochondrial antigen (Baum, H. (1271) 111)

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Molecular analysis
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Dibutyryl guanosine 3′,5′-cyclic monophosphate; Sodium nitroprusside; Pepsinogen secretion; Calcium ion, intracellular (Okayama, N. (1268) 185)

Monolayer membrane
Lateral domain; Phase separation; Cholesterol; Phosphatidylcholine; Sphingomyelin; Epifluorescence microscopy (Slotte, J.P. (1235) 419)

Sterol side chain; Cholesterol; Phosphatidylcholine; Sphingomyelin; Sterol–phospholipid interaction; Lipid domain (Mattjus, P. (1240) 237)

Cholesterol; Cholesterol oxidase; Epifluorescence microscopy; Oxidation; Phospholipid; TRITC-phosphatidylethanolamine (Slotte, J.P. (1259) 180)

Monomer
Lipoprotein lipase; Aggregation; Dimer; Hyperchylomicronemia (Masuno, H. (1254) 30)

Monomer preparation
Photosystem I; Crystallization; Thermophilic cyanobacterium; Subunit composition (Jekow, P. (1229) 115)

Monomolecular film
Pancreatic lipase; Synthetic glyceride; Kinetic behavior; Tributyrin emulsion (Gargouri, Y. (1257) 223)

Monooxygenase
EPR; Iron-sulfur center; Rieske center; Ferredoxin; Dioxygenase; (*P. putida*) (Rosche, B. (1252) 177)

Monophenolase activity
Tyrosinase; Melanogenesis; Reaction mechanism; Diphenolase activity (Sánchez-Ferrer, Á. (1247) 1)

Morphogen gradient
Dorsal; Bicoid; Embryogenesis; Transcription factor; (*Drosophila*) (Courey, A.J. (1261) 1)

Morphological response
Neutrophil; Chemotaxis; fMet-Leu-Phe; Time window; (Human) (Raif-Preminger, M. (1265) 49)

Morphology
Antenna; Chlorosome; Hydrodynamic diameter; Alcohol treatment; (Green bacterium) (Wang, Z.-Y. (1232) 187)

Morphometry
EPA; Carnitine palmitoyltransferase; Lipid droplet; Heart (Hexeberg, S. (1256) 341)

Mössbauer spectroscopy
Ironporphyrin; Dimer; Mixed valence state (Burda, K. (1244) 345)

Motility
Actin; Myosin; Video microscopy (Rivolta, M.N. (1232) 1)

Phosphatidylglycerol; (*E. coli*) (Mizushima, T. (1245) 397)

Chemotaxis; De-energization; Proton motive force; Flagellar motor; Arsenate (Welch, M. (1268) 81)

Motility assay, in vitro
Actin filament; Heavy meromyosin; ATP; Energy production, unexplained (Kellermayer, M.S.Z. (1229) 89)

Cardiac myosin; Centrifuge microscope; Force-velocity relation; Myosin (Sugiura, S. (1231) 69)

MPG
DNA repair; Gene expression; MGMT; Hepatocyte; (Rat) (Grombacher, T. (1270) 63)

MPP^+
Complex I; Complex II; MPTP; Myopathy; NADH dehydrogenase; NADH-Q oxidoreductase; Succinate dehydrogenase (Singer, T.P. (1271) 211)

MPTP
Complex I; Complex II; MPP^+; Myopathy; NADH dehydrogenase; NADH-Q oxidoreductase; Succinate dehydrogenase (Singer, T.P. (1271) 211)

msdC
α-Mannosidase; (*Penicillium*) (Yoshida, T. (1263) 159)

MSP
Promoter; Ron (Del Gatto, F. (1263) 93)

MSS1
HIV-1 gene expression; (*Xenopus* oocyte) (Nacken, W. (1261) 293)

MSS2
Pet mutation; Cytochrome-*c* oxidase; COX2; COX1; (*S. cerevisiae*) (Simon, M. (1228) 95)

***mts1* gene**
DNA methylation; DNAaseI hypersensitivity site; Gene transcription (Tulchinsky, E. (1261) 243)

Mucin secretion
Rat submandibular gland; Desensitization; GTP binding protein; ADP-ribosylation; Phosphorylation; cyclic AMP-dependent protein kinase (Ishikawa, Y. (1265) 173)

Mucopolysaccharidosis IIID
Caprine; *N*-Acetylglucosamine-6-sulfatase; cDNA; Comparative genomics; Trinucleotide repeat; (Human) (Friderici, K. (1271) 364)

Mucopolysaccharidosis Type VI
Maroteaux-Lamy syndrome; Sulfatase conservation (Simonaro, C.M. (1272) 129)

Multicatalytic
ATPase; Ubiquitin; Proteinase; Proteasome; Muscle; (Rabbit) (Akaishi, T. (1245) 331)

Multicatalytic proteinase
Polyubiquitin gene; Ubiquitin conjugation; Ubiquitin-conjugating enzyme; Proteasome; Muscle atrophy; (Crustacean) (Shean, B.S. (1264) 312)

Multicatalytic proteinase complex
cDNA cloning; Proteasome; Subunit RC6-1 (Ni, R. (1264) 45)

Multi-copper enzyme
Laccase; Phenol oxidase; White-rot fungus; Lignin degradation; (*T. versicolor*) (Jönsson, L. (1251) 210)

Multi-copy suppressor
STM1; *TOM1*; *HTR1*; (*S. cerevisiae*) (Utsugi, T. (1263) 285)

Multidimensional NMR
Interleukin-6; NMR; Resonance assignment; Cytokine structure; α-Helical bundle (Morton, C.J. (1249) 189)

Multidrug resistance
Analgesic; Plasma membrane; CHO cell line; MCF7 cell line (Callaghan, R. (1236) 155)

Anionic phospholipid; Doxorubicin; Drug–membrane interaction; Passive diffusion; P-glycoprotein; Verapamil (Speelmans, G. (1238) 137)

Liposome; Drug delivery; Permeability; Cancer; Stearylamine (Webb, M.S. (1238) 147)

P-glycoprotein; Hyperphosphorylation (Lee, W.-P. (1245) 57)

P-glycoprotein; Transport; (*X. laevis*) (Castillo, G. (1262) 113)

Sphingomyelinase; Chemosensitizer (Jaffrézou, J.-P. (1266) 1)

P-glycoprotein; *MDR*1; Revertant; Drug transport (Yusa, K. (1269) 260)

Multidrug transporter
Intestinal differentiation; Gene regulation; P-glycoprotein; *mdr* gene (Chianale, J. (1264) 369)

Multigene family
Rice allergen; α-Amylase/trypsin inhibitor family; Plant lipid transfer protein (Alvarez, A.M. (1251) 201)

Chagas' disease; Acidic ribosomal protein; Phosphorylation site (Schijman, A.G. (1264) 15)

Multilamellar liposome
Liposome; Polyamine; Phosphatidylcholine; Spermine; EPR (Momo, F. (1240) 89)

Multinuclear magnetic resonance
Membrane fusion; Anti-viral peptide; NMR (Dentino, A.R. (1235) 213)

Multiple conductance state
Leukotoxin; Planar bilayer; Ion channel; Bacterial toxin; Single channel conductance; Membrane pore; RTX toxin; (*A. actinomycetemcomitans*) (Lear, J.D. (1238) 34)

Mummification
Similaun man; Raman spectroscopy; Electron microscopy; Human skin (Williams, A.C. (1246) 98)

Muscarinic
Neuropeptide Y; Peptide YY; Receptor; Evolution; Mutagenesis; (*X. laevis*) (Blomqvist, A.G. (1261) 439)

Muscle
Alkylation; Essential sulfhydryl; Myosin heavy chain (Ehrlich, A. (1232) 13)

ATPase; Ubiquitin; Proteinase; Proteasome; Multicatalytic; (Rabbit) (Akaishi, T. (1245) 331)

Muscle atrophy
Polyubiquitin gene; Ubiquitin conjugation; Ubiquitin-conjugating enzyme; Proteasome; Multicatalytic proteinase; (Crustacean) (Shean, B.S. (1264) 312)

Muscle cell
Protein kinase C; Calpain; Phorbol ester (Hong, D.-h. (1267) 45)

Muscle contraction
β-Guanidinopropionic acid; Skeletal muscle; Mitochondrion; Mitochondrial biogenesis; Oxidative phosphorylation (Freyssenet, D. (1228) 211)

Muscle development
Connectin; Nebulin; Protein isoform; Skeletal muscle; (Chicken) (Hattori, A. (1244) 179)

Protein, 550 kDa; Skeletal muscle; (Chick embryo) (Hattori, A. (1245) 191)

Muscle glycolysis
Glycogen phosphorylase; McArdle's disease (Bartram, C. (1272) 1)

Muscular biopsy
Mitochondrion; Citrate synthetase; Respiratory complex; Cytochrome-*c* oxidase; (Human muscle) (Lefai, E. (1228) 43)

Muscular dystrophy
Mitochondrion; Coenzyme Q_{10}; Neurogenic atropy (Folkers, K. (1271) 281)

Mutagenesis
Uncoupled transport; Protein modification; Antiport model; Vectorial coupling; Channel (Krupka, R.M. (1236) 1)

Citrate synthase; Propionyl-CoA; Carboxymethyl-CoA (Man, W.-J. (1250) 69)

Threonine dehydrogenase; Enzyme inactivation; Hydroxylamine (Chen, Y.-W. (1253) 208)

Neuropeptide Y; Peptide YY; Receptor; Evolution; Muscarinic; (*X. laevis*) (Blomqvist, A.G. (1261) 439)

Oxidative DNA damage; Photosensitizer; Singlet oxygen; 8-Hydroxyguanine (Buchko, G.W. (1263) 17)

Mutant
Exchange interaction; Magnetic field effect; Photosynthesis; Reaction center (Van der Vos, R. (1230) 51)

Angiogenesis; Cytokine; Growth factor; Vascular permeability factor; (Endothelium) (Claffey, K.P. (1246) 1)

Erythropoietin; pGEX; Expression vector (Bill, R.M. (1261) 35)

Srp; Signal recognition; GTPase (Samuelsson, T. (1267) 83)

Mutant allele
transformer locus; DNA sequence; Nonsense mutation; (*D. melanogaster*) (Yuan, X. (1260) 369)

Mutant analysis
β-Lactamase; Catalytic mechanism; Antibiotic resistance (Matagne, A. (1246) 109)

Mutant apo A-I
Apolipoprotein A-I; HDL; Amphipathic helix; Protein–lipid interaction; Reconstituted lipoprotein (Brouillette, C.G. (1256) 103)

Mutation
Proteinase inhibitor; HIV-1; Nucleic acid sequence; Proteinase-resistant strain (Yamaguchi, K. (1253) 136)

Metalloproteinase; Recombinant gene product; Glycoprotein; Active site; Activation mechanism; (*Leishmania*) (Macdonald, M.H. (1253) 199)

Lipoprotein(a); Apolipoprotein(a); Kringle; Polymorphism, apo A; Atherothrombosis (Scanu, A.M. (1256) 1)

Aging; Mitochondrion; Superoxide; Apoptosis; Complex I (Cortopassi, G. (1271) 171)

Mitochondrial DNA; Bioenergy; Coenzyme Q (ubiquinone); AZT; DNA (Linnane, A.W. (1271) 191)

Kearns-Sayre syndrome; Deletion; Recombination; Heteroplasm (Vázquez-Acevedo, M. (1271) 363)

Myc gene family
cDNA; Pituitary gland; (Rainbow trout) (Panno, J.P. (1264) 7)

Mycobacterium
Mycolic acid; INH resistance; Catalase; Peroxidase (Quémard, A. (1254) 98)

Mycolic acid
INH resistance; Catalase; Peroxidase; Mycobacterium (Quémard, A. (1254) 98)

Myeloma
Uridine transport; Nucleoside transport; *n*-Ethylmaleimide (Lee, C.-W. (1268) 200)

Myoblast
Vitamin D-3, 1,25$(OH)_2$; Phospholipase A_2; Arachidonic acid; GTP-binding protein; Signal transduction (De Boland, A.R. (1257) 274)

Fibroblast growth factor; Immediate early gene; Gene expression; MAP kinase; Signal transduction (Lim, R.W. (1266) 91)

1,25-Dihydroxyvitamin D_3; Calcium ion uptake; cyclic AMP; G-protein; Signal transduction (Vazquez, G. (1269) 91)

Myocardial reperfusion injury
α-Adrenergic receptor; Calcium; Phospholipase C; Phosphoinositide (Moraru, I.I. (1268) 1)

Myoclonus epilepsy
Mitochondrion; mtDNA; tRNA; Mitochondrial encephalomyopathy; Leigh's syndrome (Holme, E. (1271) 249)

Myogenic differentiation
Glucose transporter; Transport mutant; Glucose starvation; Regulation; (Myoblast) (Lu, Z. (1234) 155)

Myoglobin
NMR, ^{1}H-; EPR; Distal residue; Heme methyl proton hyperfine shift (Yamamoto, Y. (1248) 149)

Protein entrapment; Polysiloxane copolymer; Polymer imprinting; Hemoglobin (Venton, D.L. (1250) 126)

Temperature; Heme reorientation; Heme-insertion isomer (Yee, S. (1252) 295)

Resonance Raman spectroscopy; Ligation; Double mutant; (Porcine) (Anderton, C.L. (1253) 1)

Myometrium
Tyrosine kinase; Genistein; Daidzein; Calcium ion current; Whole-cell voltage clamp; (Uterine smooth muscle); (Pregnant rat) (Kusaka, M. (1240) 196)

Myopathy
Carnitine; Complex I deficiency; Encephalomyopathy; Lactic acidemia; Mitochondrion; Oxidative phosphorylation; Riboflavin (Scholte, H.R. (1271) 75)

Complex I; Complex II; MPTP; MPP^+; NADH dehydrogenase; NADH-Q oxidoreductase; Succinate dehydrogenase (Singer, T.P. (1271) 211)

Myosin
Cardiac myosin; Motility assay, in vitro; Centrifuge microscope; Force-velocity relation (Sugiura, S. (1231) 69)

Actin; Motility; Video microscopy (Rivolta, M.N. (1232) 1)

Myosin heavy chain
Muscle; Alkylation; Essential sulfhydryl (Ehrlich, A. (1232) 13)

Myotoxin
Phospholipase A_2; Snake venom; L-6 cell; Cytotoxicity; Calcium influx (Incerpi, S. (1268) 137)

N

NAD
Transhydrogenase; Proton pumping; Nucleotide; NADP; Membrane protein (Hu, X. (1229) 64)

Nucleotide; NADP; Transhydrogenase; Proton pumping (Olausson, T. (1231) 1)

Aldosterone; Glucocorticoids; Kidney; NADP (Alfaidy, N. (1243) 461)

NADH
Ion transfer; Hydride transfer mechanism; 3-Acetylpyridine adenine dinucleotide; Pyridine nucleotide transhydrogenase; Transhydrogenation (Glavas, N.A. (1231) 297)

Acetyl-CoA hydrolase; Propionyl-CoA hydrolase; Sulfur-substituted fatty acid; Mitochondrion; Peroxisome; Liver; (Rat) (Garras, A. (1255) 154)

NADH dehydrogenase
Assay condition; Flavoprotein; Electron transfer; Hexammineruthenium (III); Steady-state kinetics; (Bovine heart mitochondria) (Gavrikova, E.V. (1230) 23)

Complex I deficiency; ND subunit; Peptide-specific antibody; Mitochondrial myopathy (Bentlage, H.A.C.M. (1234) 63)

Complex I; Complex II; MPTP; MPP^+; Myopathy; NADH-Q oxidoreductase; Succinate dehydrogenase (Singer, T.P. (1271) 211)

NADH:flavin oxidoreductase
Bile acid-inducible; (*Eubacterium*) (Baron, S.F. (1249) 145)

NADH oxidase
Mitochondrion; NADPH oxidase; Electron transport chain (Anderson, W.M. (1230) 186)

Chlorsulfuron; Herbicide; Auxin; Plasma membrane; Plant growth; (Soybean) (Morré, D.J. (1240) 5)

Diarylsulfonylurea; Sulfonylurea; Antitumor drug; Plasma membrane; HeLa cell; Hepatoma; (Rat liver) (Morré, D.J. (1240) 11)

NADH oxidase activity
Inhibition; Sulfonylurea; Antitumor drug; Plasma membrane; HeLa cell (Morré, D.J. (1240) 201)

NADH-Q oxidoreductase
Complex I; Complex II; MPTP; MPP^+; Myopathy; NADH dehydrogenase; Succinate dehydrogenase (Singer, T.P. (1271) 211)

NADH:ubiquinone reductase
Bovine leukemia virus; Nitrocompound; Cytotoxicity; NADPH:cytochrome *P*-450 reductase; DT-diaphorase (Čėnas, N. (1268) 159)

NAD-linked dehydrogenase
Alcohol; Mitochondrion; Calcium; Oxidative phosphorylation (Li, H.L. (1236) 306)

NADP
Transhydrogenase; Proton pumping; Nucleotide; NAD; Membrane protein (Hu, X. (1229) 64)

Nucleotide; NAD; Transhydrogenase; Proton pumping (Olausson, T. (1231) 1)

Aldosterone; Glucocorticoids; Kidney; NAD (Alfaidy, N. (1243) 461)

NADPH
GSH; GSSG; Glutathione-protein mixed disulfide; Protein sulphydryl groups; Oxidative stress (Rossi, R. (1243) 230)

Catalase; Free radical; Peroxide; Electron transfer; (*P. mirabilis*) (Bicout, D.J. (1252) 172)

NADPH:cytochrome *P*-450 oxidoreductase
Cytochrome *P*-450 monooxygenase; Cinnamic acid 4-hydroxylase; Aminopyrine *N*-demethylation; BY2; Immunological characteristic (Imaishi, H. (1246) 53)

NADPH:cytochrome *P*-450 reductase
Bovine leukemia virus; Nitrocompound; Cytotoxicity; NADH:ubiquinone reductase; DT-diaphorase (Čėnas, N. (1268) 159)

NAD(P)H fluorescence
Skinned muscle fiber; Flavoprotein fluorescence; Mitochondrial myopathy; Encephalomyopathy; (Human) (Winkler, K. (1272) 181)

NADPH oxidase
Cytochrome *b*-559; Membrane orientation; Membrane potential; Liposome (Koshkin, V. (1229) 329)

Mitochondrion; NADH oxidase; Electron transport chain (Anderson, W.M. (1230) 186)

Vascular smooth muscle; Superoxide anion; Cytochrome *b*-558; cDNA cloning (Fukui, T. (1231) 215)

Cytochrome *P*-450 BM3; Reductase domain; Oxygen free radical (Munro, A.W. (1231) 255)

Respiratory burst; Flavocytochrome *b*-559; Oxygen activation (Koshkin, V. (1232) 225)

gp91-phox; Interleukin-4; Macrophage; (Swine) (Zhou, Y. (1265) 40)

NADP-malate dehydrogenase
Light/dark modulation; Chloroplast enzyme; Fructose-bisphosphatase; Phosphoribulokinase; Redox equilibrium; Metabolite effect (Faske, M. (1247) 135)

NAD reduction
Acetolactate; Ubiquinone reduction; Flavin reduction; Acetohydroxy acid synthase; (*Methanococcus*) (Park, S.H. (1245) 366)

Nalidixic acid
Liposome; Remote loading; pH gradient; Calcium acetate gradient; 5(6)-Carboxyfluorescein (Clerc, S. (1240) 257)

Nanoparticle
Polysaccharide; Drug carrier; Phospholipid; Gentamicin; Doxorubicin (De Miguel, I. (1237) 49)

NAP_3-2-azido-ADP
F_1; ATPase; Photoaffinity labeling; Tight binding; Cooperativity; Non-catalytic site; Hysteretic inhibition (Edel, C.M. (1229) 103)

Naphthalene solubility
Miscible solvent; Aqueous–organic mixture; Protein denaturation; Denaturation capacity; Hydrophobic effect (Rosell, C.M. (1252) 158)

NARP mutation
Mitochondrial encephalomyopathy; mtDNA; Heteroplasmy; ATP synthase; F_o-subunit (Houštěk, J. (1271) 349)

Native membrane
DDE; Partition coefficient; Model membrane; Fluidity (Videira, R.A. (1238) 22)

Natural killer cell
Subtractive hybridization; cDNA cloning; Proline-rich protein (Chen, J. (1264) 19)

NBD-cholesterol
Cholesterol; Phosphatidylcholine; Lateral phase; Epifluorescence microscopy; Monolayer; NBD-phosphatidylcholine (Slotte, J.P. (1254) 22)

NBD-phosphatidylcholine
Cholesterol; Phosphatidylcholine; Lateral phase; Epifluorescence microscopy; Monolayer; NBD-cholesterol (Slotte, J.P. (1254) 22)

ND subunit
NADH dehydrogenase; Complex I deficiency; Peptide-specific antibody; Mitochondrial myopathy (Bentlage, H.A.C.M. (1234) 63)

Nebulin
Connectin; Muscle development; Protein isoform; Skeletal muscle; (Chicken) (Hattori, A. (1244) 179)

Negative supercoiling
Diethyl pyrocarbonate reactivity; Potassium permanganate reactivity; DNA conformation, non-B (Wölfl, S. (1264) 294)

Neoplastic cell
Nitrogen monoxide; Iron uptake; Iron mobilisation; Transferrin (Richardson, D.R. (1266) 250)

Neopullulanase
α-Amylase; Cyclodextrinase; Nucleotide sequence; (*Actinomycete*) (Tonozuka, T. (1252) 35)

Nephrotoxicity
Daptomycin; Gentamicin; Aminoglycoside; Phosphatidylinositol; Infrared spectroscopy (Gurnani, K. (1237) 86)

Nervous system
Choline metabolism; Primary sympathetic neuron (Bussière, M. (1259) 148)

Neural specificity
α-Tubulin; Carboxy-terminal residue; Transgenic expression; Inter-species conservation; (*C. elegans*) (Fukushige, T. (1261) 401)

Neuraminidase
Influenza virus; Sialic acid; Membrane fusion; Membrane binding; CEM cell; Fluorescence (Pedroso de Lima, M.C. (1236) 323)

Neuroblastoma cell
Tacrine; Physostigmine; Lysosome; Thymocyte; Alzheimer's disease (Dell'Antone, P. (1270) 137)

Neuroendocrine cell
Transmembrane protein; Protein polymorphism; EGF-like superfamily; Cell differentiation (Lee, Y.L. (1261) 223)

Neurogenic atropy
Mitochondrion; Coenzyme Q_{10}; Muscular dystrophy (Folkers, K. (1271) 281)

Neurohormone
Crustacean hyperglycemic hormone; Preprohormone; (*Homarus americanus*) (De Kleijn, D.P.V. (1260) 62)

Neuromelanin
Antioxidant; Free-radical scavenger; Iron-ion sequestration; EPR-spin trapping; Fenton reaction (Zaręba, M. (1271) 343)

Neuromodulator
Δ^1-Piperidine-2-carboxylate; Synaptosome; Transport; Metabolism (Chang, Y.-F. (1238) 29)

Neuromuscular junction
Acetylcholinesterase, asymmetric; Heparin domain; Protamine; Extracellular matrix (Deprez, P.N. (1252) 53)

Neuron
Transcription factor; Fork head; Telencephalon; Chromosome 14q; Brain factor; (Human) (Wiese, S. (1262) 105)

Neuronal gene expression
Synapsin I; Transcriptional regulation; cAMP responsive element; Protein kinase A (Hoesche, C. (1261) 249)

Neuropathy target esterase
Esterase; Surrogate substrate; Colorimetric substrate (Borhan, B. (1250) 171)

Neuropeptide
Galanin; Circular dichroism; Secondary structure; Solvent stabilization (Öhman, A. (1236) 259)

NMR; Structure; Prejunctional receptor (Barden, J.A. (1250) 83)

Diapause hormone and pheromone biosynthesis activating neuropeptide gene; Gene cloning; Gene sequencing; Embryonic diapause; (*B. mori*) (Xu, W.-H. (1261) 83)

Neuropeptide Y
Peptide YY; Receptor; Evolution; Muscarinic; Mutagenesis; (*X. laevis*) (Blomqvist, A.G. (1261) 439)

Neurotoxicity
N-Acylphosphatidylethanolamine; *N*-Acylethanolamine; Anandamide; Glutamate; Cortical neuron (Hansen, H.S. (1258) 303)

Neutral cholesterol esterase
Macrophage colony-stimulating factor (M-CSF); Monocyte; Macrophage; Cholesterol (Ishii, I. (1254) 51)

Neutral glycolipid
Hepatoma; Isogloboside; Blood group B-active glycolipid; LEC rat (Ariga, T. (1254) 257)

Neutralization
Antihemorrhagin; Venom; Serum (Borkow, G. (1245) 232)

Neutral pH-optimum sphingomyelinase
Enzyme characterization; Sphingomyelin; Sphingomyelin analog; Structure–activity relationship; Mammal (Lister, M.D. (1256) 25)

Neutrophil
Glycosyl-phosphatidyl-anchored protein; Cell stimulation; Exocytosis; Detergent (Cain, T.J. (1235) 69)

Cationic peptide; Antibacterial activity; Histamine-releasing activity; Modification; (Guinea-pig) (Yamashita, T. (1243) 295)

Adhesion; Arterial material; Polystyrene; Surface modification (Wakabayashi, Y. (1243) 521)

Arachidonic acid; Respiratory burst; Second messenger; Phospholipase (Ely, E.W. (1258) 135)

Chemotaxis; fMet-Leu-Phe; Morphological response; Time window; (Human) (Raif-Preminger, M. (1265) 49)

Endothelial cell; Xanthine oxidase; Elastase; Adhesion molecule (Wakabayashi, Y. (1265) 103)

NF-κB
N-Acetylcysteine; Pyrolidine dithiocarbamate; Diamide; Reactive oxygen intermediate; Antioxidant (Brennan, P. (1260) 167)

***nhaA* gene**
Sodium ion/proton antiporter; Aspartic acid residue; Marine bacterium; (*V. alginolyticus*) (Nakamura, T. (1230) 170)

NHE-1
Acid stress; Sodium ion–proton exchanger; Isoform; NHE-2; (mIMCD-3 cell) (Singh, G. (1239) 74)

NHE-2
Acid stress; Sodium ion–proton exchanger; Isoform; NHE-1; (mIMCD-3 cell) (Singh, G. (1239) 74)

Nickel ion
Embryotoxicity; Fructose-1,6-bisphosphate aldolase A; Metal-binding protein; (*Xenopus laevis*) (Antonijczuk, K. (1247) 81)

Nicotinamide nucleotide
Transhydrogenase; Proton translocation; Energy transduction; (Bacterial membrane); (*E. coli*) (Bizouarn, T. (1229) 49)

Nicotinic acetylcholine receptor
Ion channel; Transmembrane helix; Molecular dynamics; Electrostatics (Sankararamakrishnan, R. (1239) 122)

Niemann-Pick disease
Sphingomyelin; Sphingomyelin degradation; Sphingomyelinase; Non-lysosomal pathway (Levade, T. (1258) 277)

Niflumic acid
Mesangial cell; Whole-cell recording; Chloride conductance; Ochratoxin A; Insulin; (*H-2K*^{b}-tsA58 transgenic mouse) (Barber, R.D. (1269) 267)

Nigericin
Bilayer lipid membrane; Unstirred layer; pH microelectrode; pH profile; Alcohol dehydrogenase (Antonenko, Y.N. (1235) 57)

NIH3T3 cell
Potassium ion channel, calcium-activated; Calcium ion channel, T-type; Src oncogene; pp60$^{v\text{-}src}$; Charybdotoxin (Draheim, H.J. (1269) 57)

NIR spectroscopy
Mitochondrial function; NMR; Skeletal tissue (Chance, B. (1271) 7)

Nitrate
Anion binding; Bicarbonate; Brush-border membrane; Formate; NMR (Galanter, W.L. (1237) 16)

Nitrate reductase; Isoform; (*G. max*, soybean) (Santucci, D.M. (1247) 46)

Nitrate reductase
Ferredoxin; Ferredoxin:NADP reductase; Nitrite reductase; Common binding site; (*Anabaena*) (Schmitz, S. (1231) 335)

Nitrate; Isoform; (*G. max*, soybean) (Santucci, D.M. (1247) 46)

Nitrate transport
Plasmalemma; Proton permeability; Fluorescence quenching; (Cyanobacterium) (Zinovieva, M. (1230) 91)

Nitric oxide
Fusinite; Kinetics; EPR; In vivo measurement; CHO cell; Cell metabolism; Mitochondrion (Clarkson, R.B. (1243) 496)

Peroxynitrite; Spin trapping; Hydroxyl radical; Superoxide (Pou, S. (1244) 62)

Prostaglandin $F_{2\alpha}$; Liver perfusion (Weidenbach, H. (1245) 181)

S-Nitrosylation; Advanced glycosylation end product (AGE); Glutathione; Lymphocyte proliferation; cGMP; Glucose transport; (Human) (Farkas, J. (1245) 305)

Nitric oxide derivative; Sulfite toxicity; Platelet aggregation; Signaling; Respiratory disease (Harvey, S.B. (1267) 41)

L-Arginine; Polyamine; Colon carcinoma cell (HT-29 line) (Blachier, F. (1268) 255)

Active oxygen species; Antioxidant; Inducible NO synthase (Mikoyan, V.D. (1269) 19)

Endothelial cell; Modulation; Nitrovasodilator drug; Prostacyclin; Tolerance (Matthews, J.S. (1269) 237)

Spin trapping; EPR; Lipopolysaccharide; Dithiocarbamate; (Mice) (Komarov, A.M. (1272) 29)

Nitric oxide derivative
Nitric oxide; Sulfite toxicity; Platelet aggregation; Signaling; Respiratory disease (Harvey, S.B. (1267) 41)

Nitric oxide reductase
Cytochrome *bc*; Denitrification; (*P. aeruginosa*) (Arai, H. (1261) 279)

Nitric oxide synthetase
Hyperbaric oxygenation; Macrophage (Kurata, S.-I. (1263) 35)

Nitrilotriacetic acid
Oxidative stress; Hydrogen peroxide; Bovine serum albumin; Iron; Free radical (Ogino, T. (1245) 359)

Nitrite
Chlorophyll bleaching; Hydrogen peroxide; Nitrogen dioxide; Peroxidase (Shibata, H. (1230) 45)

Nitrite reductase
Ferredoxin; Ferredoxin:NADP reductase; Nitrate reductase; Common binding site; (*Anabaena*) (Schmitz, S. (1231) 335)

Nitrogen assimilation regulation; Synchronous culture; Light/dark cycle; (Green alga) (Pajuelo, E. (1249) 72)

Nitroblue tetrazolium
Ascorbic acid; Ascorbate recycling; Transmembrane oxidoreductase; Erythrocyte; (Human) (May, J.M. (1238) 127)

Nitrocompound
Bovine leukemia virus; Cytotoxicity; NADPH:cytochrome *P*-450 reductase; NADH:ubiquinone reductase; DT-diaphorase (Čėnas, N. (1268) 159)

Nitrogenase
Ferredoxin; Electron transport; Nitrogen fixation (Jouanneau, Y. (1232) 33)

Nitrogen assimilation regulation
Nitrite reductase; Synchronous culture; Light/dark cycle; (Green alga) (Pajuelo, E. (1249) 72)

Nitrogen dioxide
Chlorophyll bleaching; Hydrogen peroxide; Nitrite; Peroxidase (Shibata, H. (1230) 45)

Alveolar macrophage; Aldehyde; 4-Hydroxynonenal; Glycolaldehyde (Robison, T.W. (1256) 334)

Nitrogen fixation
Cytochrome *c*; Electron transport; Respiratory protection; (*A. vinelandii*) (Ng, T.C.N. (1230) 119)

Ferredoxin; Electron transport; Nitrogenase (Jouanneau, Y. (1232) 33)

Leghemoglobin; Sulfhydryl group; Cysteine; EPR; Oxidative damage; (Root nodule) (Puppo, A. (1246) 74)

Leghemoglobin; Hydrogen peroxide; Ferryl; Radical; EPR; Oxidative damage; Root nodule (Moreau, S. (1251) 17)

Nitrogen monoxide
Iron uptake; Iron mobilisation; Neoplastic cell; Transferrin (Richardson, D.R. (1266) 250)

Nitrogen oxide reduction
Enzyme; Respiration; Oxyanion reduction; Electron transport; Denitrification (Berks, B.C. (1232) 97)

***p*-Nitrophenyl-α-D-mannoside**
α-Mannosidase; Man-6; Man-9 (Gaikwad, S.M. (1250) 144)

***p*-Nitrophenyl ester**
Emulsion; Water soluble; Adsorption; Sodium dodecyl sulfate (Martinelle, M. (1258) 272)

Nitrous oxide
L-Glutamate; High pressure; Ion channel; Anesthesia (Macdonald, A.G. (1236) 135)

Nitrous oxide reductase
Promoter; NosZ; Regulation; FNR-binding site; Denitrification; Copper protein (Cuypers, H. (1264) 183)

Nitrovasodilator drug
Endothelial cell; Modulation; Nitric oxide; Prostacyclin; Tolerance (Matthews, J.S. (1269) 237)

Nm23
Leukemia; Differentiation inhibitory factor; Nucleoside diphosphate kinase (Okabe-Kado, J. (1267) 101)

NMDARA1 homologue
Glutamate binding protein homologue; Embryogenesis; (*Drosophila*) (Pellicena-Pallé, A. (1261) 301)

NMDA receptor
N-Methyl-D-aspartate receptor; NR3; cDNA sequence; Amino acid sequence; (Human) (Adams, S.-L. (1260) 105)

NMR
Electron transfer; Flash photolysis; Photosynthesis; Photosystem I; Site-directed mutagenesis (Sigfridsson, K. (1228) 28)

Structure determination; Amphipathic helix; Alpha helix; Spiralin; Distance geometry; Annealing (Bondon, A. (1235) 169)

Multinuclear magnetic resonance; Membrane fusion; Anti-viral peptide (Dentino, A.R. (1235) 213)

Anion binding; Bicarbonate; Brush-border membrane; Formate; Nitrate (Galanter, W.L. (1237) 16)

Sodium ion, intracellular; Intracellular sodium ion; Ion flux; Cell culture; Mitogenic signal; (3T3 fibroplast) (Berman, E. (1239) 177)

CD; Blood clotting protein; Factor IX; Propeptide; Hemophilia B; Solution conformation (Cheng, J.-W. (1245) 227)

Bacteriophage lambda lysozyme; Methionine; Inhibition; DSC; Peptidoglycan (Duewel, H.S. (1247) 149)

Glutathione; Macrophage migration inhibitory factor; (Rat liver) (Nishihira, J. (1247) 159)

Thioltransferase; Glutathione; Thiol/disulfide exchange; Enzyme kinetics (Rabenstein, D.L. (1249) 29)

Interleukin-6; Multidimensional NMR; Resonance assignment; Cytokine structure; α-Helical bundle (Morton, C.J. (1249) 189)

Neuropeptide; Structure; Prejunctional receptor (Barden, J.A. (1250) 83)

Thiopropionyl cytochrome *c*; Thiol heme iron ligand; Optical spectrum; EPR, continuous wave; Electron spin echo envelope modulation (Theodorakis, J.L. (1252) 103)

Boronic acid; Serine proteinase; NMR, ^{19}F-; Nuclear Overhauser effect; Protein dynamics (Sylvia, L.A. (1252) 225)

α-Crystallin; Chaperone; Unfolded protein; Fluorescence spectroscopy (Carver, J.A. (1252) 251)

Polymyxin analogue; Peptide conformation; ROESY spectrum; Distance-geometry calculation; Restraint molecular dynamics simulation (Liao, S.-Y. (1252) 312)

β-Glucanase, (1 → 3)-; β-Glucanase, (1 → 3,1 → 4)-; Reaction mechanism; (Barley); (*E. coli*); (*L. digitata*) (Chen, L. (1253) 112)

Hemopexin; Heme binding domain; EPR; MCD (Cox, M.C. (1253) 215)

LDL; Lipid peroxidation; Hydroperoxide; Aldehyde (Lodge, J.K. (1256) 130)

Glucolipid structure; (*A. laidlawii*) (Hauksson, J.B. (1258) 1)

Red blood cell; Calcium; Cobalt; Hydrogen peroxide; Cell membrane; Senescence (Aiken, N.R. (1270) 52)

Mitochondrial function; NIR spectroscopy; Skeletal tissue (Chance, B. (1271) 7)

NMR, ^{13}C-
Tricarboxylic acid cycle; Aspartate aminotransferase; Heart; (Rat) (Weiss, R.G. (1243) 543)

Glutathione; Glutathione synthesis; Ocular lens; Tissue redox state (Willis, J.A. (1265) 1)

NMR, ^{35}Cl-; Transverse relaxation time; Calcium chloride titration; Dodecylphosphocholine micelle; Circular dichroism (Jing, N. (1238) 12)

Heme protein; Ligand orientation; (*D. vulgaris*) (Turner, D.L. (1246) 24)

NMR, ^{113}Cd-
NMR, ^{25}Mg-; Isocitrate dehydrogenase; Metal binding site; (Pig heart) (Ehrlich, R.S. (1246) 135)

NMR, ^{35}Cl-
NMR, ^{13}C-; Transverse relaxation time; Calcium chloride titration; Dodecylphosphocholine micelle; Circular dichroism (Jing, N. (1238) 12)

NMR, ^{19}F-
Pharmacokinetics; Volatile anesthetic; Halothane distribution; (Rabbit brain) (Venkatasubramanian, P.N. (1245) 262)

NMR; Boronic acid; Serine proteinase; Nuclear Overhauser effect; Protein dynamics (Sylvia, L.A. (1252) 225)

NMR, ^{19}F- and ^{1}H-
5-FdUDP synthesis; Ribonucleoside-diphosphate reductase; Nucleotide binding; Protein conformational equilibrium (Roy, B. (1247) 284)

NMR, ^{1}H-
Bile; Bile lipid; Gallstone; Vesicle; Micelle (Sequeira, S.S. (1256) 360)

Phycobiliprotein; Absorption; Phycochrome; Phytochrome (Zhao, K.-H. (1228) 235)

Ethanol; Acetonitrile; Anesthetic; Erythrocyte; Water channel; Water diffusional permeability (Lahajnar, G. (1235) 437)

Keratan sulfate oligosaccharide; Repeat sequence; Chain cap; Structural assignment; Keratanase digestion (Huckerby, T.N. (1244) 17)

Casein; Phosphopeptide structure; Bioactive peptide; Anticariogenic peptide (Huq, N.L. (1247) 201)

EPR; Myoglobin; Distal residue; Heme methyl proton hyperfine shift (Yamamoto, Y. (1248) 149)

NMR, ^{2}H-
Glycolipid; Phospholipid bilayer; Order parameter; Fatty acid (Morrow, M.R. (1235) 239)

Amphipathic fatty acid derivative; Fatty acid; Membrane; Partition coefficient; Equilibrium dialysis; Fluorescence spectroscopy (Lurie, E. (1235) 256)

N,N-Dimethylsphingosine; Membrane-bound pK_a; pK_a value (Lau, B. (1237) 37)

Miscibility; Phospholipid bilayer; Phosphatidylcholine; Phosphatidylethanolamine; Acidic phospholipid; Specific deuteration; NMR, ^{31}P- (Shin, K.-h. (1238) 42)

Glucolipid; Phase equilibrium; Membrane; Regulation (Niemi, A.R. (1239) 186)

Dimethylsphingosine; Glycosphingolipid, lyso- (Rigby, A.C. (1240) 75)

NMR, ^{25}Mg-
NMR, ^{113}Cd-; Isocitrate dehydrogenase; Metal binding site; (Pig heart) (Ehrlich, R.S. (1246) 135)

NMR, ^{31}P-
Capsaicin; Model membrane; DSC; Lipid polymorphism (Aranda, F.J. (1234) 225)

Melittin; Model membrane; Phosphatidylcholine chain length; Light scattering (Faucon, J.-F. (1234) 235)

Miscibility; Phospholipid bilayer; Phosphatidylcholine; Phosphatidylethanolamine; Acidic phospholipid; Specific deuteration; NMR, ^{2}H- (Shin, K.-h. (1238) 42)

High-energy phosphate; Preconditioning; Purine; Adenosine (Bradamante, S. (1243) 1)

Saturation transfer; Relaxation time; Dilution; Rate constant; Creatine kinase (Conrad, A. (1243) 117)

pH, intracellular; Microspectrofluorimetry; SNARF; (*C. albicans*) (Rabaste, F. (1268) 41)

pH, intracellular; *Candida albicans*; Amphotericin B; Potassium; Atomic absorption (Rabaste, F. (1268) 50)

Phosphate transport; Mitochondrion; Glycogenolysis (Radda, G.K. (1271) 15)

Cirrhosis; Phospholipid; Liver; (Human) (Taylor-Robinson, S.D. (1272) 113)

NMR, ^{17}O-
Reorientationally hindered water; Water dynamics; Biopolymer–water interaction (Flesche, C.W. (1244) 253)

NMR order parameter
Sterol function; Transverse deuteron relaxation; Cross polarization spin dynamics; Relaxation process, ^{13}C; Cooperative lipid motion (Urbina, J.A. (1238) 163)

NMR, solid state ^{2}H-
DSC; Solid state ^{2}H-NMR; Drug–membrane interaction; Steroid; Alphaxalone; Δ^{16}-Alphaxalone (Mavromoustakos, T. (1239) 257)

NMR spectroscopy
Inositol; Glycerophosphorylcholine; Seminal plasma; Reproduction (Kamp, G. (1243) 101)

NMR spectroscopy, ^{31}P-
Pyridoxal 5′-phosphate; Site-directed mutagenesis (Becker, S. (1243) 381)

NMR, two-dimensional
Cytochrome *c*; 1-Methylimidazole (Shao, W. (1248) 177)

***N,N*-Dimethylsphingosine**
Membrane-bound pK_a; pK_a value; NMR, ^{2}H- (Lau, B. (1237) 37)

Non-catalytic site
F_1; ATPase; Photoaffinity labeling; NAP_3-2-azido-ADP; Tight binding; Cooperativity; Hysteretic inhibition (Edel, C.M. (1229) 103)

Noncoding exon
Deer antler; Bone morphogenetic protein 4; mRNA transcript (Feng, J.Q. (1263) 163)

Non-enzymatic glycation
Glutathione peroxidase; Long range H-bonding (Baldwin, J.S. (1247) 60)

Vitamin C; Lens protein; Plasma protein; Collagen (Nagaraj, R.H. (1253) 75)

Non-enzymatic glycosylation
Maillard reaction; Collagen; Plasma protein; Diabetes; Aging (Portero-Otin, M. (1247) 74)

Non-hemorrhagic protease
Snake venom; Metalloprotease; α-Fibrin(ogen)ase; Low molecular weight protease; (*Agkistrodon halys brevicaudus*) (Fujimura, S. (1243) 94)

Nonlamellar phase
Lipid bilayer; Spontaneous curvature; Headgroup composition; Acyl chain composition; (*A. laidlawii*) (Österberg, F. (1257) 18)

Nonlinear optimization
Photoacoustic diagnostics; Photoinduced volume change; Reaction center; Relaxation kinetics; (*R. sphaeroides*) (Puchenkov, O.V. (1231) 197)

Non-linear transmission
Light-harvesting complex; Exciton migration; Pump and probe beam spectroscopy (Kehrberg, G. (1231) 147)

Non-lysosomal pathway
Sphingomyelin; Sphingomyelin degradation; Sphingomyelinase; Niemann-Pick disease (Levade, T. (1258) 277)

Nonmercaptalbumin
Aging; HPLC; Mercaptalbumin; Redox state; Serum albumin; (Human) (Era, S. (1247) 12)

Nonphotochemical quenching
Chlorophyll fluorescence; Light harvesting complex II; Xanthophyll cycle; Minor LHC II complex (Härtel, H. (1228) 91)

Nonsense mutation
Mutant allele; *transformer* locus; DNA sequence; (*D. melanogaster*) (Yuan, X. (1260) 369)

Nonshivering thermogenesis
Brown adipose tissue; Creatine depletion; β-Guanidinopropionic acid; Hyperplasia; Uncoupling protein (Yamashita, H. (1230) 69)

Non-small cell lung cancer
DNA topoisomerase; Gene expression; Chemotherapy; Proliferation (Giaccone, G. (1264) 337)

Non-specific lipid-transfer protein
Sterol carrier protein-2; Lactase-phlorizin hydrolase; Plasma membrane protein; Peroxisome; (Rat intestine) (Wouters, F.S. (1259) 192)

Non-spherical cell
Dielectric relaxation; Permittivity; Interfacial polarization; Synchronized culture; Growth curve (Asami, K. (1245) 317)

Non steroidal anti-inflammatory drug
Cyclooxygenase 2; Macrophage; Adhesion; Prostaglandin (Tordjman, C. (1256) 249)

Non stochastic distribution
Ion channel; Lipid bilayer (Krasilnikov, O.V. (1233) 105)

Non-transferrin-bound iron
Iron transport; Iron chelation; Iron overload; Iron metabolism; (Human hepatocyte) (Parkes, J.G. (1243) 373)

Norepinephrine stimulation
Arachidonic acid; Docosahexaenoic acid; (Rat pineal gland) (Delton, I. (1254) 147)

Normal artery
Atherosclerosis; Fatty streak; Lesion, intermediate and advanced; Oxysterol; Hydroxyoctadecadienoic acid; (Human) (Carpenter, K.L.H. (1256) 141)

Northern analysis
cDNA library; Nucleotide sequence; Polymerase chain reaction; Signal peptide (Ma, D.-P. (1257) 81)

NosZ
Promoter; Nitrous oxide reductase; Regulation; FNR-binding site; Denitrification; Copper protein (Cuypers, H. (1264) 183)

Novel valine dehydrogenase
Purification; Characterization; Valine dehydrogenase; (*S. aureofaciens*) (Nguyen, L.T. (1251) 186)

Novobiocin
Ion channel; HPLC purification (Feigin, A.M. (1234) 43)

NR3
N-Methyl-D-aspartate receptor; NMDA receptor; cDNA sequence; Amino acid sequence; (Human) (Adams, S.-L. (1260) 105)

N-*ras*
unr; Developmental expression; Gametogenesis (López-Fernández, L.A. (1263) 10)

N-terminal fragment
Nuclease; Conformation; Peptide folding; (*Staphylococcus*) (Jing, G.-z. (1250) 189)

N-terminal sequence
Leukotriene C_4 synthase; Monocytic cell; Mast cell; (Human); (Mouse) (Goppelt-Struebe, M. (1256) 257)

N-terminus
Cystatin; Transamination (Stevens, J. (1252) 195)

Nuclear factor
Apolipoprotein E gene; Transcriptional regulatory element; Gel mobility shift assay; Protein binding domain; (Mouse) (Paik, Y.-K. (1262) 124)

Nuclear gene
Mitochondrial protein; Electron transfer chain; Mitochondrial myopathy; Bioenergetics (Hegeman, A.D. (1261) 311)

Nuclear lamina and membrane
Nucleosome; Chromatin fiber; Chromosome domain; Transcriptional control (Dimitrov, S. (1260) 1)

Nuclear Overhauser effect
NMR; Boronic acid; Serine proteinase; NMR, ^{19}F-; Protein dynamics (Sylvia, L.A. (1252) 225)

Nuclear polyhedrosis virus
Baculovirus; Spruce budworm; CfMNPV; Cathepsin (Hill, J.E. (1264) 275)

Nuclease
N-terminal fragment; Conformation; Peptide folding; (*Staphylococcus*) (Jing, G.-z. (1250) 189)

Purification; Characterization; DNA; RNA; (*E. chrysanthemi*) (Moulard, M. (1262) 133)

Nucleation
Cholesterol; Hydrophobicity; Bile salt; Gallstone (Juste, C. (1254) 89)

Nucleation site
Protein folding; Structure of LYS(38–51); Peptide fragment (Najbar, L.V. (1250) 163)

Nucleic acid sequence
Proteinase inhibitor; HIV-1; Mutation; Proteinase-resistant strain (Yamaguchi, K. (1253) 136)

Nucleophosmin/B23 (NPM) oligomer
Oligomer; HeLa cell (Chan, P.K. (1262) 37)

Nucleoside analog
Thymidine kinase 1, cytosolic; Regulation; ATP activation; Azidothymidine (Munch-Petersen, B. (1250) 158)

Nucleoside diphosphate kinase
Isoform; (Spinach) (Zhang, J. (1248) 19)

Leukemia; Differentiation inhibitory factor; Nm23 (Okabe-Kado, J. (1267) 101)

Nucleoside diphosphosugar
ADP-ribose; CDP-choline; Pyrophosphohydrolase; Nucleotide pyrophosphatase; Phosphodiesterase-I; Manganese(II); Magnesium(II); (Rat liver) (Canales, J. (1246) 167)

Nucleoside transport
Merozoite; L-Adenosine; Parasitophorous duct; Metabolism; (*P. falciparum*) (Upston, J.M. (1236) 249)

Uridine transport; Myeloma; *n*-Ethylmaleimide (Lee, C.-W. (1268) 200)

Nucleosome
Chromatin fiber; Chromosome domain; Transcriptional control; Nuclear lamina and membrane (Dimitrov, S. (1260) 1)

Pluramycin; DNA damage; Chromatin; Alphoid DNA; Alpha RI DNA (Murray, V. (1261) 195)

Nucleotide
Transhydrogenase; Proton pumping; NAD; NADP; Membrane protein (Hu, X. (1229) 64)

NAD; NADP; Transhydrogenase; Proton pumping (Olausson, T. (1231) 1)

Nucleotide binding
5-FdUDP synthesis; NMR, ^{19}F- and ^{1}H-; Ribonucleoside-diphosphate reductase; Protein conformational equilibrium (Roy, B. (1247) 284)

Cytochrome *c* oxidase; Tissue-specific isozyme; Subunit composition; Proton pump; Leigh's syndrome (Kadenbach, B. (1271) 103)

Nucleotide clustering
Evolution; Sequence comparison; Scoring matrix (Stern, B. (1264) 115)

Nucleotide composition
Cytochrome *P*-450 gene superfamily; Codon usage (Porter, T.D. (1261) 394)

Nucleotide pyrophosphatase
Nucleoside diphosphosugar; ADP-ribose; CDP-choline; Pyrophosphohydrolase; Phosphodiesterase-I; Manganese(II); Magnesium(II); (Rat liver) (Canales, J. (1246) 167)

Nucleotide sequence
Ferredoxin-$NADP^+$ oxidoreductase; Gene structure; (Rice root); (*Oryza sativa* L.) (Aoki, H. (1229) 389)

Cytochrome *c'*; (*C. vinosum*) (Even, M.T. (1231) 220)

Bacillus subtilis; Mannanase; Cloning (Mendoza, N.S. (1243) 552)

Xylanase; Xylosidase; DNA; (*B. ovatus*) (Whitehead, T.R. (1244) 239)

α-Amylase; Neopullulanase; Cyclodextrinase; (*Actinomycete*) (Tonozuka, T. (1252) 35)

cDNA library; Northern analysis; Polymerase chain reaction; Signal peptide (Ma, D.-P. (1257) 81)

Cytochrome $P\text{-}450_{11\beta}$; Steroid 11β-hydroxylase; Adrenal cortex; (Sheep) (Boon, W.C. (1260) 109)

Phosphofructokinase gene; Amino acid sequence; Diplomonad; Amitochondriate protist; (*G. lamblia*) (Rozario, C. (1260) 218)

VEGF; (Pig); (Heart) (Sharma, H.S. (1260) 235)

Uromodulin; Tamm-Horsfall protein; (Mouse) (Prasadan, K. (1260) 328)

Cloning; Development; Electron transport chain; (*Mus musculus*) (Grossman, L.I. (1260) 361)

Gene regulation; Thiamine; Aflatoxin; (*Aspergillus*) (Cary, J.W. (1261) 319)

Dihydrofolate reductase; Thymidylate synthase; Bifunctional polypeptide; Amino acid sequence; Expression (Wang, M. (1261) 325)

rpoB gene; RNA polymerase; (*S. aureus*) (Aboshkiwa, M. (1262) 73)

α-Glycerol-3-phosphate dehydrogenase; cDNA cloning; Liver; (Human) (Menaya, J. (1262) 91)

Antibiotic resistance; Streptothricin; *sat*3 gene; Bacterial plasmid; Incompatibility group IncQ (Tietze, E. (1263) 176)

cyclic AMP; Amino acid sequence; Gene expression; Ferredoxin reductase; (Mouse) (Itoh, S. (1264) 159)

Rab7; GTPase, small (Vitelli, R. (1264) 268)

Signal (leader) peptidase type I; *sip* gene; PCR cloning; Sequence alignment; *fruA* gene; (*Bacillus*) (Hoang, V. (1269) 64)

Cytokine; Cloning; Interleukin; IL-12; Polymerase chain reaction; Protein sequence (Zarlenga, D.S. (1270) 215)

Nutrition
Gluconeogenesis; Insect; Tricarboxylic acid cycle (Thompson, S.N. (1245) 376)

Nycodenz
Microbody; Isopycnic centrifugation; Protoplast; Immuno-electron microscopy; (*P. chrysogenum*) (Müller, W.H. (1245) 215)

O

O-antigen
Abequose synthetase; Evolution; Insertion sequence; Paratose synthetase; Tyvelose epimerase (Hobbs, M. (1245) 273)

Obelin
Photoprotein; Cadmium; Bioluminescence (Bondar, V.S. (1231) 29)

Obesity
Adipose tissue; Liver; Intestinal mucosa; Glycerolipid formation; Triacylglycerol; Phosphatidate phosphohydrolase (Jamdar, S.C. (1255) 237)

Insulin resistance; Hypertriglyceridemia; Atherosclerosis (Russell, J.C. (1258) 199)

Ochratoxin A
Mesangial cell; Whole-cell recording; Chloride conductance; Niflumic acid; Insulin; ($H\text{-}2K^b$-tsA58 transgenic mouse) (Barber, R.D. (1269) 267)

oct-1
Transcription factor; cDNA; (Murine) (Jaffe, J. (1261) 201)

Octadecyl rhodamine B
Membrane potential; Large unilamellar vesicle; Lipid transport (Leenhouts, J.M. (1237) 121)

Endocytosis; Liposome; FITC-dextran; Lymphocyte; Jurkat cell; Poly(ethylene oxide)-lipid (Higashi, N. (1243) 386)

Octaethylene glycol *n*-dodecyl ether
ATPase, Na^+/K^+-; Sodium/potassium pump; Sodium ion; Ouabain; Solubilization (Asami, M. (1240) 55)

n-Octyl-5-dithio-2-nitrobenzoic acid
D-Lactate dehydrogenase; Ellman's reagent; Sulfhydryl; (*E. coli*) (Dowd, S.R. (1252) 278)

Ocular lens
Glutathione; Glutathione synthesis; NMR, ^{13}C-; Tissue redox state (Willis, J.A. (1265) 1)

Okadaic acid
Cholesterol ester hydrolase; Phosphatase; Hepatocyte; (Rat) (Martinez, M.J. (1258) 90)

Extracellular signal-regulated kinase (erk); Signal transduction; Tetradecanoylphorbol acetate; Heat shock; HeLa cell (Heider, H. (1265) 196)

Macrophage; Annexin; Cell differentiation (Sato, E.F. (1266) 23)

Superoxide; Dephosphorylation; Opsonized zymosan; HL-60 cell (Suzuki, K. (1266) 261)

OK cell
MDCK cell; LLC-PK1 cell; Endocytosis; Exocytosis; Fluidity (Giocondi, M.-C. (1234) 197)

Okra mucilage
Lectin; Carbohydrate epitope; Carbohydrate combining site; Carbohydrate binding property (Wu, A.M. (1243) 157)

Oleic acid
Brush-border membrane; Sodium ion–proton exchanger; (Jejunum); (Rat); (Rabbit) (Schoeller, C. (1236) 51)

In vitro; Primary human hepatocyte; Icosapentaenoic acid; Triacylglycerol; Apo B; Phospholipid (Lin, Y. (1256) 88)

Fatty acid; Age; Adipose tissue; Sex difference; (Rat) (Thorling, E.B. (1258) 195)

Diet; Palmitic acid; LDL receptor; Cholesteryl ester transfer protein; Cholesterol 7α-hydroxylase (Kurushima, H. (1258) 251)

Oleic acid induction
Peroxisome; Transcriptional regulation; (*S. cerevisiae*) (Kos, W. (1264) 79)

Olfactory neuron
Calcium; Fluorescence (Tareilus, E. (1269) 129)

Oligomer
Nucleophosmin/B23 (NPM) oligomer; HeLa cell (Chan, P.K. (1262) 37)

Oligomeric structure
ATPase, Na^+/K^+-; Phosphorylation; Dephosphorylation; Reconstitution (Cornelius, F. (1235) 197)

Oligomerization
Pore-forming toxin; Membrane insertion; α-Toxin; Pore formation; (*Staphylococcus*) (Valeva, A. (1236) 213)

Oligonucleotide conjugate
Protozoan parasite; Macrophage; Drug delivery; (*Leishmania amazonensis*) (Mishra, R.K. (1264) 229)

Oligopeptide
Brush-border membrane; Ceftibuten; Membrane transport; Renal proximal tubule; Small intestine (Naasani, I. (1231) 163)

Oligosaccharide
Esterase; Ferulic acid; (*Pseudomonas*) (Faulds, C.B. (1243) 265)

Ribonuclease; Tissue plasminogen activator; Plasminogen; Site occupancy (Rudd, P.M. (1248) 1)

Oviduct; Sperm; Glycoprotein; Lectin; Sialic acid (Satoh, T. (1266) 117)

Omeprazole
ATPase, H^+-; Plasma membrane; Drug targeting; (Yeast) (Monk, B.C. (1239) 81)

Membrane potential; Voltage-clamp technique; Thiocyanate; Famotidine; SCH 28080; (*R. pipiens*); (Gastric mucosa) (Carrasquer, G. (1240) 41)

Oncogene
Apoptosis; Chemoresistance; Prostate tumor (Sinha, B.K. (1270) 12)

Bcl-2; Cell death; Reactive oxygen species (Korsmeyer, S.J. (1271) 63)

***ras*-Oncogene**
Ornithine decarboxylase; Marker of proliferation; Fibroblast; Transformed cell (Shayovits, A. (1267) 107)

Oncogene expression
Protein kinase C; Ornithine decarboxylase; Paraquat (Kuo, M.-L. (1268) 229)

Oncogenic activation
c-*met*; HGF/SF; Tyrosine-kinase receptor; Rearrangement; cDNA cloning; cDNA sequencing (Wicker, R. (1264) 254)

Oocyte
Amino acid; Transport protein; Transporter; Expression cloning; (*Xenopus*) (Van Winkle, L.J. (1233) 213)

Riboflavin uptake; (*X. laevis*) (Dyer, D.L. (1234) 15)

Oocyte maturation
Cadherin; Polyadenylation; Translation; (*X. laevis*) (Kühl, M. (1262) 95)

Opioid peptide
Melanin; Opio-melanin; Photoirradiation; Bleaching (Rosei, M.A. (1243) 71)

Opio-melanin
Melanin; Opioid peptide; Photoirradiation; Bleaching (Rosei, M.A. (1243) 71)

Opsonin
Liposome; Phosphatidylserine; Complement; Erythrocyte; Reticuloendothelial system (Liu, D. (1235) 140)

Opsonized zymosan
Superoxide; Okadaic acid; Dephosphorylation; HL-60 cell (Suzuki, K. (1266) 261)

Optical spectrum
Thiopropionyl cytochrome *c*; Thiol heme iron ligand; NMR; EPR, continuous wave; Electron spin echo envelope modulation (Theodorakis, J.L. (1252) 103)

Order parameter
Glycolipid; Phospholipid bilayer; NMR, ^2H-; Fatty acid (Morrow, M.R. (1235) 239)

orf16
dnaK locus; Transcription; Archaeon vs. bacterium; (*Methanosarcina mazei*) (Macario, A.J.L. (1264) 173)

Organ culture
Lung development; Alveolar type II cell; Fetal lung; Glucocorticoid; Epidermal growth factor (Tangada, S.D. (1268) 191)

Organic cation
Tryptamine; Surface potential; Liposome; Inhibition; Brush-border membrane; (Rat intestine) (Sugawara, M. (1234) 22)

Transport; Kidney; 1-Methyl-4-phenylpyridinium (MPP^+); Tetraethylammonium (TEA) (Wright, S.H. (1240) 18)

Organic cation transport
Proximal tubule; Tetrapentylammonium; Tetraethylammonium transport; (Rabbit kidney) (Groves, C.E. (1234) 37)

Organic phosphate
Methemoglobin; Self-association; Preferential binding (Jacobsen, M.P. (1246) 17)

Organic solvent
Pulmonary surfactant; Surfactant-associated protein; Circular dichroism; Secondary structure; Intrinsic fluorescence (Cruz, A. (1255) 68)

Organogel
Kinetic resolution; Lipase; Water-in-oil microemulsion; Cryoenzymology; Enantioselectivity (Rees, G.D. (1259) 73)

Origin mutant
Single-stranded DNA plasmid; Deletion; Complementary strand; DNA sequence (Kodaira, K.-I. (1260) 183)

Single-stranded DNA phage; Deletion/insertion; Complementary strand; DNA sequence (Kodaira, K.-I. (1260) 191)

Ornithine decarboxylase
Marker of proliferation; Fibroblast; Transformed cell; *ras*-Oncogene (Shayovits, A. (1267) 107)

Protein kinase C; Oncogene expression; Paraquat (Kuo, M.-L. (1268) 229)

Ornithine decarboxylase antizyme
Frameshift; cDNA; (*X. laevis*) (Ichiba, T. (1262) 83)

Ornithine decarboxylase mRNA
mRNA, maternal; *S*-Adenosylmethionine decarboxylase mRNA; Polyamine; Protein degradation; Post-translational control; (*X. laevis*) (Rosander, U. (1264) 121)

Ornithine transcarbamylase
Orotic acid; Transgene; Liver; Small intestine; (spf-ash Mouse, sparse-fur with abnormal skin and hair) (Saheki, T. (1270) 87)

Orosomucoid
α_1-Acid glycoprotein; Denaturation; Circular dichroism; Fluorescence (Kodíček, M. (1246) 10)

Orotic acid
Ornithine transcarbamylase; Transgene; Liver; Small intestine; (spf-ash Mouse, sparse-fur with abnormal skin and hair) (Saheki, T. (1270) 87)

Orphan receptor
Seven-transmembrane motif; Polymerase chain reaction; (Rat); (Human) (Hata, S. (1261) 121)

Osmolarity
Hepatocyte; Volume; Energetics; Cellular respiration (Espie, P. (1230) 139)

Osmolyte
myo-Inositol; Facilitated diffusion; Kidney; Phlorizin; Phloretin; Glucose; (Proximal tubule); (LLC-PK_1 cell) (Russo, L.M. (1236) 15)

Betaine accumulation; Osmoregulation; Betaine analogue; ProP; ProU (Randall, K. (1245) 116)

Osmoregulation
Betaine accumulation; Betaine analogue; Osmolyte; ProP; ProU (Randall, K. (1245) 116)

Osmotic permeability
Water pore; Molecular dynamics simulation; Single file; Kinetic model (Kalko, S.G. (1240) 159)

Osmotic stress
LUV; Membrane-active antibiotic; Pyranine; Ion channel; Amphotericin B (Wolf, B.D. (1238) 156)

Osone
Aldose reductase; Aldehyde reductase; Enzyme; Reduction; Kinetics (Feather, M.S. (1244) 10)

Osteocalcin
Vitamin D analog; Vitamin D receptor (Arbour, N.C. (1263) 147)

Osteoclast
Cathepsin B; Thiol proteinase (Dong, S.-S. (1251) 69)

Ouabain
ATPase, Na^+/K^+-; Sodium/potassium pump; Sodium ion; Solubilization; Octaethylene glycol *n*-dodecyl ether (Asami, M. (1240) 55)

Glucose; Sodium ion; Pancreatic β-cell; Beta-cell (Saha, S. (1265) 209)

Spontaneous hypertension; ATPase, Na^+/K^+-, isolated; Sodium; Mercury; (Hypertensive rat); (Brain); (Kidney) (Anner, B.M. (1270) 95)

Ouabain binding
ATPase, Na^+/K^+-; Dimethylsulfoxide; Phosphoenzyme from P_i (Fontes, C.F.L. (1235) 43)

Outer membrane
Monoamine oxidase; Aldehyde reductase; Radiochemical assay; Contact site; Mitochondrion (Wojtczak, A.B. (1229) 249)

Ovarian carcinoma
Liposome; Immunoliposome; Monoclonal antibody; Targeted drug delivery; (Human) (Nässander, U.K. (1235) 126)

Ovary
Prohormone convertase; Processing endoproteinase; (Porcine) (Dai, G. (1264) 1)

Overexpression
$cPLA_2$; Phosphorylation; MAP kinase; Baculovirus (Abdullah, K. (1244) 157)

Oviduct
Sperm; Glycoprotein; Lectin; Sialic acid; Oligosaccharide (Satoh, T. (1266) 117)

Oxidant
Glucocorticoid receptor; Transcriptional factor; Anti-oxidant; DNA–protein interaction (Esposito, F. (1260) 308)

Arachidonic acid; $cPLA_2$; Phosphorylation; Smooth muscle cell (Rao, G.N. (1265) 67)

Apoptosis; Thymocyte (Slater, A.F.G. (1271) 59)

Oxidase activity
Thiopropionyl cytochrome *c*; Chemically modified cytochrome *c*; Chromatographic separation; Cytochrome-*c* oxidase; Charge reversal effect (Theodorakis, J.L. (1252) 114)

Oxidation
Liposome; Drug delivery; Polycarbonate membrane (Chow, C.-Y. (1239) 168)

LDL; Inhibition; Bilirubin; Albumin-bound bilirubin; Transition metal (Hulea, S.A. (1259) 29)

Cholesterol; Cholesterol oxidase; Epifluorescence microscopy; Monolayer membrane; Phospholipid; TRITC-phosphatidylethanolamine (Slotte, J.P. (1259) 180)

Advanced glycosylation end product; Diabetes; Atherosclerosis; Lipid peroxide; (Human) (Dobrian, A. (1270) 26)

Hemin; LDL; Erythrocyte membrane; Albumin (Miller, Y.I. (1272) 119)

ω-Oxidation
ω-Hydroxydocosahexaenoic acid; ω-Hydroxyicosatetraenoic acid; Human colonic, well-differentiated adenocarcinoma; Liquid chromatography-thermospray-mass spectrometry (Shimizu, S. (1256) 293)

Oxidation–reduction
Hemoglobin; Blood substitute; Polymerization; Kinetics (Rogers, M.S. (1248) 135)

Oxidative damage
Leghemoglobin; Sulfhydryl group; Cysteine; EPR; Nitrogen fixation; (Root nodule) (Puppo, A. (1246) 74)

Leghemoglobin; Hydrogen peroxide; Ferryl; Radical; EPR; Nitrogen fixation; Root nodule (Moreau, S. (1251) 17)

Oxidative deamination
Aromatic amine dehydrogenase; Quinoprotein; Kinetic isotope effect (Hyun, Y.-L. (1251) 198)

Oxidative DNA damage
Photosensitizer; Singlet oxygen; Mutagenesis; 8-Hydroxyguanine (Buchko, G.W. (1263) 17)

Oxidative phosphorylation
β-Guanidinopropionic acid; Skeletal muscle; Muscle contraction; Mitochondrion; Mitochondrial biogenesis (Freyssenet, D. (1228) 211)

Palmitic acid; Protonophore; Mitochondrial membrane; Phospholipid bilayer; Magnesium ion (Shinohara, Y. (1228) 229)

Alkaliphile; Cytochrome; Respiration (Hicks, D.B. (1229) 303)

Proportional activation; Calcium-acting hormone; Gluconeogenesis; Lactate; Pyruvate (Korzeniewski, B. (1229) 315)

Mitochondrion; pH, intracellular; Respiration; Anoxia; (*Artemia*) (Kwast, K.E. (1232) 5)

Alcohol; Mitochondrion; Calcium; NAD-linked dehydrogenase (Li, H.L. (1236) 306)

Mitochondrial myopathy; Skeletal muscle mitochondrion; Forebrain mitochondria; Respiratory chain; Ischemia; Reperfusion (Lee, C.P. (1271) 21)

Carnitine; Complex I deficiency; Encephalomyopathy; Lactic acidemia; Mitochondrion; Myopathy; Riboflavin (Scholte, H.R. (1271) 75)

Mitochondrion; Mitochondrial function (Schatz, G. (1271) 123)

mtDNA mutation; Mitochondrion (Wallace, D.C. (1271) 141)

Liver regeneration; ATP synthase; Mitochondrion (Guerrieri, F. (1272) 95)

Oxidative stress
ATPase, Ca^{2+}-; Calcium ion transport; Iron; Ascorbate; Ferrylhemoglobin; Alamethicin; (Lung); (Microsome) (Menshikova, E.V. (1228) 165)

Erythrocyte; Lipid peroxidation; Potassium ion leakage; Protoporphyrin; Porphyria (Williams, M. (1236) 81)

GSH; GSSG; Glutathione-protein mixed disulfide; Protein sulphydryl groups; NADPH (Rossi, R. (1243) 230)

Hydrogen peroxide; Renal mitochondrion (González-Flecha, B. (1243) 361)

tert-Butyl hydroperoxide; Glutathione peroxidase; Glutathione *S*-transferase; Fibroblast (Makino, N. (1243) 503)

Glutathione peroxidase; Mitochondrion; Lipid hydroperoxide; (*Hansenula mrakii*) (Inoue, Y. (1245) 325)

Hydrogen peroxide; Bovine serum albumin; Iron; Nitrilotriacetic acid; Free radical (Ogino, T. (1245) 359)

Oxidized lipid/protein reaction; Polyunsaturated fatty acid oxidation; Lysine modification; Fluorescence production; Pyrrole production and polymerization (Zamora, R. (1258) 319)

Cytokine; Radiation; Manganous superoxide dismutase; Tumor necrosis factor; Lymphotoxin (Wong, G.H.W. (1271) 205)

Parkinson's disease; Mitochondrion; Etiology; Pathogenesis (Mizuno, Y. (1271) 265)

Oxidized cell
Scavenger receptor; Sialosaccharide; Macrophage recognition; LDL; Glycophorin; (Erythrocyte) (Beppu, M. (1268) 9)

Oxidized LDL
Lipoprotein; LDL; Endothelial cell; Toxicity; Atherogenesis; Phospholipid hydrolysis (Schmitt, A. (1256) 284)

Ascorbate; Dehydroascorbate; Copper; Iron; Lipid peroxidation (Retsky, K.L. (1257) 279)

LDL; Charge; Fast protein-liquid chromatography; Immunoaffinity chromatography (Chappey, B. (1259) 261)

Oxidized lipid/protein reaction
Polyunsaturated fatty acid oxidation; Oxidative stress; Lysine modification; Fluorescence production; Pyrrole production and polymerization (Zamora, R. (1258) 319)

Oxidoreductase
Flavoenzyme; Substrate-binding peptide; Chemical modification (Huang, D.-Y. (1243) 431)

Oxoglutarate carrier
Azidophthalonate; Photoaffinity labeling; Transport; Mitochondrion; (Bovine heart) (Stipani, I. (1234) 149)

Oxo molybdenum enzyme
Enzyme reaction mechanism; Metalloenzyme (Brody, M.S. (1253) 133)

13-Oxotrideca-9,11-dienoic acid
Hydroperoxyoctadecatrienoic acid; 2-Penten-1-ol; Hydroperoxide lyase; Elicitor; Defense mechanism; (Soybean) (Kondo, Y. (1255) 9)

Oxyanion reduction
Enzyme; Respiration; Nitrogen oxide reduction; Electron transport; Denitrification (Berks, B.C. (1232) 97)

Oxygen
Cultured cell; Electron paramagnetic resonance; Fusinite; Light microscopy (Santini, M.T. (1243) 110)

Oxygen activation
Respiratory burst; NADPH oxidase; Flavocytochrome *b*-559 (Koshkin, V. (1232) 225)

Oxygen affinity
Hemoglobin; Hemoglobin variant; Allostery; (Human) (Kister, J. (1246) 34)

Oxygenated free radical
HDL; Lipid peroxidation; γ-Radiolysis; Fluorescence polarization; Cholesterol efflux; Atherosclerosis (Bonnefont-Rousselot, D. (1255) 23)

Oxygen binding
Hemoglobin; Aggregation; Chloride effect; Carbon dioxide effect; Bohr effect; Cyclostome; (Hagfish); (*M. glutinosa*) (Fago, A. (1249) 109)

Oxygen derived free radical
Glycosaminoglycan; Connective tissue degradation (Moseley, R. (1244) 245)

Oxygen evolution
Photosystem II; FTIR; Carboxylate ligand; Manganese cluster (Noguchi, T. (1228) 189)

Photosystem II; Calcium; Quinone; Electron transport; Tyrosine (Andréasson, L.-E. (1230) 155)

Photosynthesis; Photosystem II; Core particle; Water oxidation; Electron transfer; Proton transfer; Dark adaptation, repetitive (Bögershausen, O. (1230) 177)

EPR; Free radical; Microwave saturation (Boussac, A. (1230) 195)

Photosystem II; FTIR; H/D exchange; Carboxylate; Hydrogen bond (Noguchi, T. (1232) 59)

Photosystem II; Extrinsic protein; Cytochrome *c*-550; Protein, 12 kDa; (Red algae) (Enami, I. (1232) 208)

Calcium ion; Binding affinity; Salt wash; Photosystem II membrane; (Spinach) (Han, K.-C. (1232) 230)

Oxygen free radical
NADPH oxidase; Cytochrome *P*-450 BM3; Reductase domain (Munro, A.W. (1231) 255)

Anoxia; Reoxygenation; Cell injury; Lactic dehydrogenase; Superoxide; Allopurinol; Antimycin; Diphenyleniodonium; Superoxide dismutase; Tetramethylpiperidine-1-oxyl (Caraceni, P. (1268) 249)

Oxygen free radical damage
mtDNA; Point mutation; Deletion; Aging; Degenerative disease; Apoptosis (Ozawa, T. (1271) 177)

Oxygen photoreduction
Ascorbate; Monodehydroascorbate; Ascorbate peroxidase; EPR (Grace, S. (1229) 155)

Oxygen uptake
Bivascular liver perfusion; Signal transmission; Glucagon; Glycogenolysis; Glycolysis; (Rat liver) (Constantin, J. (1244) 169)

Oxysterol
Atherosclerosis; Fatty streak; Lesion, intermediate and advanced; Normal artery; Hydroxyoctadecadienoic acid; (Human) (Carpenter, K.L.H. (1256) 141)

Antiestrogen; Cytotoxicity (Low, Y.L. (1269) 32)

Oxytocin
Cystinyl aminopeptidase; Vasopressin; (Porcine kidney) (Itoh, C. (1243) 203)

P

P680
Photosystem II; Electron transfer; Absorbance difference spectroscopy; Low temperature (Hillmann, B. (1231) 76)

$p56^{lck}$
Protein-tyrosine-kinase; T-lymphocyte; Splicing (Vogel, L.B. (1264) 168)

$p34^{cdc2}$
Protein kinase; Mitotic phosphorylation; Casein kinase; (Human) (Litchfield, D.W. (1269) 69)

PAF
Acetyltransferase; Lyso-PAF; Platelet-activating factor; Plasmalogen; Transacylase (Blank, M.L. (1254) 295)

Platelet-activating factor; Saliva; Mass spectrometry (Woodard, D.S. (1259) 137)

PAF receptor; Gene; Signal transduction (Izumi, T. (1259) 317)

PAF analog
Platelet-activating factor; PAF metabolism; Intracellular processes; PAF enzyme (Snyder, F. (1254) 231)

PAF enzyme
Platelet-activating factor; PAF metabolism; Intracellular processes; PAF analog (Snyder, F. (1254) 231)

PAF metabolism
Platelet-activating factor; Intracellular processes; PAF enzyme; PAF analog (Snyder, F. (1254) 231)

PAF receptor
PAF; Gene; Signal transduction (Izumi, T. (1259) 317)

Palmitic acid
Protonophore; Mitochondrial membrane; Phospholipid bilayer; Oxidative phosphorylation; Magnesium ion (Shinohara, Y. (1228) 229)

β-Lactoglobulin; Serum albumin; Retinol; Caco-2 cell line; (Bovine) (Puyol, P. (1236) 149)

Diet; Oleic acid; LDL receptor; Cholesteryl ester transfer protein; Cholesterol 7α-hydroxylase (Kurushima, H. (1258) 251)

Palmitoylation
GLUT1; Brain capillary; Hyperglycemia; Blood-brain barrier (Pouliot, J.-F. (1234) 191)

Surfactant-associated protein C, SP-C; Surface activity; Phospholipid; Lysophospholipid; pH (Qanbar, R. (1255) 251)

Red blood cell; Ghost; Acylation; Hydroxylamine (Schmidt, M.F.G. (1257) 205)

Insulin; Insulin receptor; Adipocyte; CD36 (Jochen, A.L. (1259) 65)

Pancreas
Kallikrein gene family; Urinary kallikrein; Kininogenase (Deperthes, D. (1243) 291)

Pancreatic β-cell
Beta cell; Islet of Langerhans; ATPase, Ca^{2+}-; Phosphoenzyme; Antibody (Váradi, A. (1236) 119)

Glucose; Sodium ion; Ouabain; Beta-cell (Saha, S. (1265) 209)

Pancreatic elastase
Histidine decarboxylase; Sf9 cell; Mastocytoma; (Mouse); (Porcine) (Tanaka, S. (1253) 9)

Pancreatic lipase
Synthetic glyceride; Kinetic behavior; Tributyrin emulsion; Monomolecular film (Gargouri, Y. (1257) 223)

Esterase; Cholesterol esterase; Cholesterol oxidase; Phospholipase C; Bile acid; Bile; Mixed micelle; EPR (Uematsu, S. (1258) 122)

Pancreatic type ribonuclease family
RNAase 4; cDNA cloning; Gene expression; (Pancreas); (Human) (Seno, M. (1261) 424)

Pancreatitis associated protein II
Gene transcript; Differential splicing (Vasseur, S. (1261) 272)

Papain
Specificity; Substrate binding; Inhibitor binding; Cooperativity (Liu, S. (1250) 43)

Paraoxon
Raman spectroscopy; Butyrylcholinesterase; Inhibition; Soman; Diisopropylphosphofluoridate (Aslanian, D. (1249) 37)

Paraquat
Mitochondrion; Herbicide toxicity; Superoxide (Palmeira, C.M. (1229) 187)

Protein kinase C; Ornithine decarboxylase; Oncogene expression (Kuo, M.-L. (1268) 229)

Parasitic protozoa
Protein kinase, cyclic AMP-dependent; Catalytic subunit; Malaria; Sequence analysis; (*P. yoelii*) (Saito-Ito, A. (1269) 1)

Parasitophorous duct
Merozoite; L-Adenosine; Nucleoside transport; Metabolism; (*P. falciparum*) (Upston, J.M. (1236) 249)

Parathyroid hormone
Estrogen; IGF-I; IGFBP-4; Postmenopausal osteoporosis (Kudo, Y. (1245) 402)

Endocytosis; Phosphate transport; Kidney cell; Membrane vesicle (Paraiso, M.S. (1266) 143)

Paratose synthetase
Abequose synthetase; Evolution; Insertion sequence; O-antigen; Tyvelose epimerase (Hobbs, M. (1245) 273)

Parietal cell
cyclic AMP-dependent protein kinase; A-kinase anchoring protein; Acid secretion (Dransfield, D.T. (1269) 215)

***trans*-Parinaric acid**
Cholesterol; Time-resolved fluorescence; Fluorescence; Platelet lipid; Diphenylhexatriene (Vélez, M. (1235) 343)

Parkinson's disease
Iron; Peroxide; Dopamine; Cysteine; 5-*S*-Cysteinyldopamine (Palumbo, A. (1245) 255)

Mitochondrion; Oxidative stress; Etiology; Pathogenesis (Mizuno, Y. (1271) 265)

Partially hydrogenated fish oil
Peroxisome; Beta-Oxidation; Enzyme induction; Enzyme stabilization; Immunoblotting; (Rat liver); (Rat heart) (Kvannes, J. (1255) 39)

Particle
Proteolytic enzyme; Subtilisin; Surface; Inactivation; Autolysis (Maste, M.C.L. (1252) 261)

Partition
Phospholipid; Bilayer; Free fatty acid (Langner, M. (1236) 73)

Partition coefficient
Lindane; Phospholipid bilayer; Kinetic effect; Calorimetry; Computer simulation (Sabra, M.C. (1233) 89)

Amphipathic fatty acid derivative; Fatty acid; Membrane; NMR, ^{2}H-; Equilibrium dialysis; Fluorescence spectroscopy (Lurie, E. (1235) 256)

Lipid polymorphism; X-ray diffraction; DSC; Phospholipid structure; Phase transition (Löbbecke, L. (1237) 59)

DDE; Model membrane; Native membrane; Fluidity (Videira, R.A. (1238) 22)

Local anesthetic; Membrane; Steric property; Lipid bilayer; Spin label; EPR; Fluorescence (De Paula, E. (1240) 25)

Phospholipase A_2; Snake venom; Hydrolysis kinetics (Bent, E.D. (1254) 349)

Partitioning
Chloroplast; Grana margin; Light harvesting complex II; Photosystem; Aqueous polymer; Ferredoxin:NADP oxidoreductase; (Spinach thylakoid) (Wollenberger, L. (1230) 10)

Passive diffusion
Anionic phospholipid; Doxorubicin; Drug–membrane interaction; Multidrug resistance; P-glycoprotein; Verapamil (Speelmans, G. (1238) 137)

Passive electrical property
Electroporation; Iontophoresis; Stratum corneum; Impedance; Dynamic resistance; (Human skin) (Pliquett, U. (1239) 111)

Patch clamp
Thylakoid; Charge separation; Photocurrent (Vredenberg, W. (1230) 77)

Porin-less mitochondrion; Peptide-sensitive channel; Permeability transition; (Yeast) (Szabó, I. (1235) 115)

Cerebral artery; Smooth muscle; Cation permeable channel (Mathers, D.A. (1236) 89)

Protoplast; Inner membrane; Anionic channel; (*E. coli*) (Kubalski, A. (1238) 177)

Chloride channel; Conductance; Melanoma cell (Kauranen, M. (1269) 281)

Pathogenesis
Parkinson's disease; Mitochondrion; Oxidative stress; Etiology (Mizuno, Y. (1271) 265)

PC12 cell
Growth factor; Fibroblast growth factor, bFGF; (*E. coli*) (Kroiher, M. (1250) 29)

P19 cell
cDNA sequence; Differentiation; Pyruvate kinase (Izumi, S. (1267) 135)

PCNA
DNA binding region; Cyclin binding region; (Maize) (López, I. (1260) 119)

PCR
Ferrochelatase gene; Vectorette PCR; Coding sequence; (Bovine) (Shibuya, H. (1231) 117)

Cation channel; Inner medullary collecting duct; Sodium ion transport; Reverse transcriptase–polymerase chain reaction; (Mouse kidney) (Karlson, K.H. (1236) 197)

Peroxidase; Ink gland; Melanogenesis; (*S. officinalis*) (Palumbo, A. (1247) 173)

cDNA cloning; Zinc-finger structure; Transcription regulation; (*Xenopus*); (Human) (Hla, T. (1260) 227)

Repetitive DNA; Primate; Somatic cell hybrid (Arcot, S.S. (1263) 99)

COUP-TFI; DNA binding domain; Ti domain; (Rat brain) (Yoshikawa, T. (1264) 63)

Eosinophil; Major basic protein; RACE; cDNA cloning; (Rat) (Nittoh, T. (1264) 261)

PCR cloning
Signal (leader) peptidase type I; *sip* gene; Nucleotide sequence; Sequence alignment; *fruA* gene; (*Bacillus*) (Hoang, V. (1269) 64)

PCR-SSCP
Cip1/Waf1 (p21) gene; Cyclin-dependent kinase inhibitor; Tumor suppressor gene (Watanabe, H. (1263) 275)

PD 81,723
A_1 adenosine receptor; Allosteric enhancer; R–G complex (Bhattacharya, S. (1265) 15)

PDGF
Epididymis; Procathepsin L; Sperm maturation (Okamura, N. (1245) 221)

PDGF-A
Gene regulation; Serum; 12-*O*-Tetradecanoylphorbol-13-acetate; Cycloheximide (Takimoto, Y. (1260) 176)

PEA3
TNF-α; Urokinase promoter; AP-1 (Lengyel, E. (1268) 65)

PEG-coated liposome
Doxorubicin; Tumor cell targeting; Folate-binding protein; Liposome targeting (Lee, R.J. (1233) 134)

Pellet
Erythrocyte; Deformability; Electric conductance; Centrifugation (Pribush, A. (1256) 194)

Penetration
Skin; Liposome; Confocal laser scanning microscopy; Calorimetry (Zellmer, S. (1237) 176)

2-Penten-1-ol
Hydroperoxyoctadecatrienoic acid; 13-Oxotrideca-9,11-dienoic acid; Hydroperoxide lyase; Elicitor; Defense mechanism; (Soybean) (Kondo, Y. (1255) 9)

Pentosidine
Maillard reaction; Lung; Fluorescence; Collagen; Aging (Bellmunt, M.J. (1272) 53)

PEPCK
Insulin; Gene transcription; (Human) (O'Brien, R.M. (1264) 284)

Pepsin hydrolysis
β-Lactoglobulin; Esterification; Microcalorimetry; CD (Chobert, J.-M. (1248) 170)

Pepsinogen secretion
Calcium/calmodulin-dependent protein kinase II; Monolayer culture; Calcium ion, intracellular; Autophosphorylation (Okayama, N. (1268) 123)

Dibutyryl guanosine 3′,5′-cyclic monophosphate; Sodium nitroprusside; Calcium ion, intracellular; Monolayer culture (Okayama, N. (1268) 185)

PEPT 2
Proton/peptide cotransporter; High affinity transporter; Chromosomal localization; (Human kidney) (Ramamoorthy, S. (1240) 1)

Peptaibol
Chrysospermin; Lipid bilayer; Channel formation; Voltage-dependent conductance (Grigoriev, P. (1237) 1)

Peptide
Gramicidin; Lipid; Membrane; Protein folding (Jaikaran, D.C.J. (1234) 133)

Antimicrobial agent; Antifungal agent; Liposome; Indolicidin (Ahmad, I. (1237) 109)

B/PI; Antibiotic; Bactericidal protein; Endotoxin neutralization (Gray, B.H. (1244) 185)

Fusion; Lysis; Erythrocyte; HIV; AIDS; HIV glycoprotein 41 000 (gp41); Membrane; Red cell; Melittin; Calcium ion (Mobley, P.W. (1271) 304)

Peptide analysis
ATP-binding site; Glycine-rich loop; Recombinant expression; Creatine kinase; Autophosphorylation (Hemmer, W. (1251) 81)

Peptide antiserum
β-*N*-acetylhexosaminidase; Lysosome; HL-60 (Martino, S. (1243) 489)

Peptide conformation
Raman spectroscopy; Infrared spectroscopy; Bombesin (Carmona, P. (1246) 128)

Polymyxin analogue; ROESY spectrum; Distance-geometry calculation; Restraint molecular dynamics simulation; NMR (Liao, S.-Y. (1252) 312)

Peptide folding
Nuclease; N-terminal fragment; Conformation; (*Staphylococcus*) (Jing, G.-z. (1250) 189)

Peptide fragment
Protein folding; Structure of LYS(38–51); Nucleation site (Najbar, L.V. (1250) 163)

Peptide heterogeneity
Antarctic eel pout; Type III antifreeze peptide; Large size variant; Amino acid sequence; Structure–function relationship; (*L. dearborni*) (Wang, X. (1247) 163)

Peptide map
Interferon-α2; Allelic variant; Transcription (Linge, C. (1264) 363)

Peptide mapping
Lipase; Immunochemical; *(Geotrichum candidum)* (Jacobsen, T. (1257) 96)

Peptide precursor
Antimicrobial peptide; Molecular cloning; cDNA; (Frog skin) (Park, J.M. (1264) 23)

Peptide/proton symporter
Brush-border membrane; Functional molecular mass; (Rat kidney) (Boll, M. (1233) 145)

Peptide-sensitive channel
Porin-less mitochondrion; Permeability transition; Patch clamp; (Yeast) (Szabó, I. (1235) 115)

Peptide-specific antibody
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Peroxisome proliferator activated receptor
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pH, intracellular
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pH profile
Bilayer lipid membrane; Unstirred layer; pH microelectrode; Nigericin; Alcohol dehydrogenase (Antonenko, Y.N. (1235) 57)

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Phorbol 12-myristate 13-acetate
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Phosphatidylinositol 3-kinase
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Phospholipase A_2
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P_2 receptor; Phospholipase C; Radioligand binding; Purinergic (Malcolm, K.C. (1268) 152)

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Albumin; Phospholipid; Detergent; Mixed micelle; Lipid solubility; Aggregation (Meyuhas, D. (1234) 203)

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Photoreceptor
Stentorin ciliate; Photosensory transduction; Photophobic response; (*S. coeruleus*) (Dai, R. (1231) 58)

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Phycobiliprotein; Absorption; Circular dichroism; Phytochrome (Zhao, K.-H. (1228) 244)

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Phycobiliprotein; NMR, ^{1}H-; Absorption; Phycochrome (Zhao, K.-H. (1228) 235)

Phycobiliprotein; Absorption; Circular dichroism; Phycochrome (Zhao, K.-H. (1228) 244)

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Pigment modification
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Plasma cholesterol
HMG-CoA reductase inhibitor; Fluvastatin sodium; LDL receptor; Cholesterol 7α-hydroxylase; (WHHL rabbit) (Kurokawa, J.-i. (1259) 99)

Plasma complex A_2B_2
Plasma factor XIII; Biosynthesis; Hepatocyte (Kaczmarek, E. (1247) 127)

Plasma factor XIII
Biosynthesis; Hepatocyte; Plasma complex A_2B_2 (Kaczmarek, E. (1247) 127)

Plasma LDL-cholesterol concentration
Fat-free diet; Cholesterol synthesis; Bile acid synthesis; LDL transport; Cholesterol homeostasis (Bertolotti, M. (1255) 293)

Plasmalemma
Nitrate transport; Proton permeability; Fluorescence quenching; (Cyanobacterium) (Zinovieva, M. (1230) 91)

Plasmalogen
Acetyltransferase; Lyso-PAF; PAF; Platelet-activating factor; Transacylase (Blank, M.L. (1254) 295)

Plasma membrane
Lipid particle; Sterol transport; Steryl ester; Steryl-ester hydrolase; Terbinafine; (*S. cerevisiae*) (Leber, R. (1234) 119)

Phospholipid composition; Surface potential; (Yeast) (Cerbón, J. (1235) 100)

ATPase; Reconstitution; (*N. crassa*) (Vigneron, L. (1236) 95)

Multidrug resistance; Analgesic; CHO cell line; MCF7 cell line (Callaghan, R. (1236) 155)

Percolation theory; Adenylate cyclase; Fluorescence recovery; FRAP; Reticulocyte (Zakharova, O.M. (1236) 177)

Endocytic membrane; Fluorescence probe; TMA-DPH (Illinger, D. (1239) 58)

ATPase, H^+-; Drug targeting; Omeprazole; (Yeast) (Monk, B.C. (1239) 81)

Chlorsulfuron; Herbicide; Auxin; NADH oxidase; Plant growth; (Soybean) (Morré, D.J. (1240) 5)

Diarylsulfonylurea; Sulfonylurea; Antitumor drug; NADH oxidase; HeLa cell; Hepatoma; (Rat liver) (Morré, D.J. (1240) 11)

NADH oxidase activity; Inhibition; Sulfonylurea; Antitumor drug; HeLa cell (Morré, D.J. (1240) 201)

Aminopeptidase; Cobalt ion; Endoproteinase; Proteinase inhibitor; Unicellular alga; (*Chlamydomonas reinhardtii*) (Langheinrich, U. (1249) 45)

Linolenic acid; Lipoxygenase; Protoplast; (*Helianthus annuus* L.) (Vianello, A. (1255) 57)

Plasma membrane cholesterol
LDL; Endoplasmic reticulum (Spillane, D.M. (1254) 283)

Plasma membrane fluidity
Steady-state fluorescence polarization; Sterol; Phospholipid; Fatty acid; (*Bryonia dioica*) (Mathieu, C. (1235) 249)

Plasma membrane protein
Non-specific lipid-transfer protein; Sterol carrier protein-2; Lactase-phlorizin hydrolase; Peroxisome; (Rat intestine) (Wouters, F.S. (1259) 192)

Plasma protein
Non-enzymatic glycosylation; Maillard reaction; Collagen; Diabetes; Aging (Portero-Otin, M. (1247) 74)

Non-enzymatic glycation; Vitamin C; Lens protein; Collagen (Nagaraj, R.H. (1253) 75)

Ceruloplasmin; Uterus; Gene expression (Thomas, T. (1261) 77)

Plasmid
Gram-negative bacterium; Phospholipid; Fatty acid; Growth temperature; (*Y. pseudotuberculosis*) (Krasikova, I.N. (1257) 118)

Plasmid vector
Ethylnitrosourea; DNA damage; Alkyl adduct; DNA repair; Restriction enzyme; Restriction protection; Immunoprobing; (*E. coli*) (Musarrat, J. (1263) 201)

Plasminogen
Urokinase; Tissue plasminogen activator; Plasmin substrate S-2251; Spectrozyme PL (Kolev, K. (1247) 239)

Oligosaccharide; Ribonuclease; Tissue plasminogen activator; Site occupancy (Rudd, P.M. (1248) 1)

Plasminogen activator inhibitor-1
Tissue-type plasminogen activator; Cathepsin D; Monocyte (Simon, D.I. (1268) 143)

Fucoidan; Endotoxin; Endothelial cell; (Human umbilical vein) (Soeda, S. (1269) 85)

Plasmin substrate S-2251
Plasminogen; Urokinase; Tissue plasminogen activator; Spectrozyme PL (Kolev, K. (1247) 239)

Plastoquinone
Photosystem II; Photoinhibition; FTIR; Thermoluminescence; D1 protein (Ono, T.-a. (1229) 239)

Platelet
Glutamine; Amino acid uptake; Glutaminase I; Mitochondria; Glutamate dehydrogenase; Aspartate transaminase (Vasta, V. (1243) 43)

Tyrosine phosphorylation; Platelet aggregation; von Willebrand factor; Glycoprotein Ib; (Human) (Ozaki, Y. (1243) 482)

Chloroquine diphosphate; Cholesteryl ester hydrolytic activity; cyclic AMP-dependent protein kinase; H-89 (cyclic AMP-dependent protein

kinase inhibitor); Iloprost; Phospholipid; 2',5' Dideoxyadenosine (Barre, D.E. (1254) 180)

Calcium; Cholesterol; Dietary fatty acid; Signal transduction; (Rat) (Heemskerk, J.W.M. (1255) 87)

Tyrosine phosphorylation; Cytoskeleton; Translocation; Protein tyrosine kinase $pp60^{c\text{-}src}$; (Human) (Altmüller, A. (1265) 61)

Phosphoinositide breakdown; Shikonin derivative; (*A. euchroma*) (Ko, F.-N. (1268) 329)

Platelet-activating factor
PAF metabolism; Intracellular processes; PAF enzyme; PAF analog (Snyder, F. (1254) 231)

Acetyltransferase; Lyso-PAF; PAF; Plasmalogen; Transacylase (Blank, M.L. (1254) 295)

GC-MS; Acetyltransferase; Choline-phosphotransferase; (Lower animals) (Sugiura, T. (1258) 19)

PAF; Saliva; Mass spectrometry (Woodard, D.S. (1259) 137)

Bone marrow; Hematopoiesis; (Human) (Denizot, Y. (1265) 55)

Platelet activator, thrombin-like
Snake venom; Purification; Mechanism of action (Marrakchi, N. (1244) 147)

Platelet aggregation
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Tyrosine phosphorylation; Platelet; von Willebrand factor; Glycoprotein Ib; (Human) (Ozaki, Y. (1243) 482)

Flavocetin-A and -B; Glycoprotein Ib; Shear stress; Von Willebrand factor; (Snake venom) (Taniuchi, Y. (1244) 331)

κ-Casein; Milk; (Sheep) (Qian, Z.-Y. (1244) 411)

Nitric oxide; Nitric oxide derivative; Sulfite toxicity; Signaling; Respiratory disease (Harvey, S.B. (1267) 41)

Platelet-derived growth factor
Receptor; mRNA; v-*src* Transformation; (Rat kidney fibroblast) (Zhang, Q.-X. (1266) 9)

Atherosclerosis; Cell division; Growth; Lipoprotein; Arterial smooth muscle cell; Fibroblast (Björkerud, S. (1268) 237)

Platelet inhibitor
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Platelet lipid
Cholesterol; Time-resolved fluorescence; Fluorescence; Diphenylhexatriene; *trans*-Parinaric acid (Vélez, M. (1235) 343)

Platelet thrombin receptor GpIb
Thrombin like enzyme; Snake venom proteinase; α-Fibrinogenase (Basheer, A.R. (1250) 97)

Pleiotropic phenotype
Gene family characterization; Gene mutation; Sequence comparison; (*S. cerevisiae*) (Revardel, E. (1263) 261)

PLTP
HDL conversion; LCAT; CETP (Pulcini, T. (1254) 13)

rPLTP
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PLTP cDNA, mouse
Phospholipid transfer protein; PLTP, human; HDL; Protein expression; rPLTP; HDL interconversion (Albers, J.J. (1258) 27)

PLTP, human
Phospholipid transfer protein; PLTP cDNA, mouse; HDL; Protein expression; rPLTP; HDL interconversion (Albers, J.J. (1258) 27)

Pluramycin
DNA damage; Chromatin; Alphoid DNA; Nucleosome; Alpha RI DNA (Murray, V. (1261) 195)

p38 MAP kinase
(cDNA(Human)) (Han, J. (1265) 224)

PMCA3
Calcium pump; Trinucleotide repeat (Burk, S.E. (1240) 119)

PNH
PIG-A; GlcNAc-PI; GPI anchor (Yu, J. (1255) 344)

Point mutation
mtDNA; Oxygen free radical damage; Deletion; Aging; Degenerative disease; Apoptosis (Ozawa, T. (1271) 177)

Polar lipid extract
Vesicle stability; Phosphatidylcholine; External agent (Fan, Q. (1240) 83)

Pollen development
Glycogen synthase kinase-3; Pollen embryogenesis; Protein kinase; *shaggy*; (*N. tabacum*) (Einzenberger, E. (1260) 315)

Pollen embryogenesis
Glycogen synthase kinase-3; Pollen development; Protein kinase; *shaggy*; (*N. tabacum*) (Einzenberger, E. (1260) 315)

Polyacrylamide gel electrophoresis
Protein-lipid binding; Lipid vesicle; Micelle; Cholera toxin; Ganglioside; Streptavidin; Annexin (Arnold, M. (1233) 198)

Polyadenylation
mRNA; mRNA precursor; 3'-End cleavage (Wahle, E. (1261) 183)

Cadherin; Translation; Oocyte maturation; (*X. laevis*) (Kühl, M. (1262) 95)

Insulin receptor; Gene; Posttranscriptional regulation; mRNA stability (Levy, J.R. (1263) 253)

Poly(ADP-ribose) metabolism
ADP ribose; Enzyme kinetics; Polymerase; DNA repair (Lagueux, J. (1264) 201)

Polyamine
Liposome; Phosphatidylcholine; Multilamellar liposome; Spermine; EPR (Momo, F. (1240) 89)

Diamine oxidase; Intestinal growth; Phytohemagglutinin; Polyamine oxidase (Sessa, A. (1244) 198)

Ethanol; Liver; Transglutaminase; (Rat) (Sessa, A. (1245) 371)

S-Adenosylmethionine decarboxylase; Protein turnover; Translational regulation; COS cell (Svensson, F. (1260) 21)

mRNA, maternal; Ornithine decarboxylase mRNA; *S*-Adenosylmethionine decarboxylase mRNA; Protein degradation; Post-translational control; (*X. laevis*) (Rosander, U. (1264) 121)

L-Arginine; Nitric oxide; Colon carcinoma cell (HT-29 line) (Blachier, F. (1268) 255)

Polyamine metabolism
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Polyamine oxidase
Diamine oxidase; Intestinal growth; Phytohemagglutinin; Polyamine (Sessa, A. (1244) 198)

Polyanion
Porin; VDAC; Hexokinase; Triton; Contact point (Báthori, G. (1234) 249)

Polycarbonate membrane
Liposome; Oxidation; Drug delivery (Chow, C.-Y. (1239) 168)

Polycation
Brush-border membrane vesicle; Calcium ion transport; Inhibition; EPR; (Intestine) (Schedl, H.P. (1234) 81)

Poly[d(A-T)]
Helix-coil transition; Transition temperature; Pressure dependence; Cation (Najaf-Zadeh, R. (1262) 52)

Polyene macrolide antibiotic
Antibiotic; Sterol; Membrane modeled medium; Amphotericin B–sterol interaction; Cell toxicity correlation (Mazerski, J. (1236) 170)

Poly(ethylene glycol)
Liposome; Immunoliposome; Antibody; Drug delivery system (Maruyama, K. (1234) 74)

Sterically stabilized liposome; Liposome targeting; Doxorubicin; Immunoliposome; Selective toxicity; Toxicity (Allen, T.M. (1237) 99)

Sterically stabilized liposome; Antibody conjugation; Drug delivery system; Targeted drug delivery (Hansen, C.B. (1239) 133)

Poly(ethylene glycol)-modified lipid
Liposome; Liposomal targeting; Antibody; Liposome-antibody conjugation (Shahinian, S. (1239) 157)

Poly(ethylene oxide)-lipid
Endocytosis; Liposome; FITC-dextran; Octadecyl rhodamine B; Lymphocyte; Jurkat cell (Higashi, N. (1243) 386)

Polyhydric compound
Stabilization; Chaotropic agent; Protein unfolding; Water structure; Fourier transform Raman spectroscopy (Taylor, L.S. (1253) 39)

Polyketide synthase
Acyl carrier protein; 4'-Phosphopantetheine; Electrospray mass spectrometry; Malonyl transferase; (*Streptomyces*) (Crosby, J. (1251) 32)

Polymer
Lipid monolayer; Membrane; Electrophoresis; Photobleaching; FRAP; Diffusion (Dietrich, C. (1238) 183)

Polymerase
ADP ribose; Enzyme kinetics; DNA repair; Poly(ADP-ribose) metabolism (Lagueux, J. (1264) 201)

Polymerase chain reaction
cDNA library; Northern analysis; Nucleotide sequence; Signal peptide (Ma, D.-P. (1257) 81)

Lysyl oxidase; cDNA; (Rat) (Trackman, P.C. (1260) 355)

Seven-transmembrane motif; Orphan receptor; (Rat); (Human) (Hata, S. (1261) 121)

Amidophosphoribosyltransferase; Aminoimidazole ribonucleotide carboxylase; De novo purine synthesis; Divergent promoter; Cell cycle; (Rat) (Iwahana, H. (1261) 369)

cDNA sequence; Cysteine endopeptidase; Developing seed; (*Glycine max.*) (Nong, V.H. (1261) 435)

Cytokine; Cloning; Interleukin; IL-12; Nucleotide sequence; Protein sequence (Zarlenga, D.S. (1270) 215)

Polymer imprinting
Protein entrapment; Polysiloxane copolymer; Hemoglobin; Myoglobin (Venton, D.L. (1250) 126)

Polymerization
Hemoglobin; Blood substitute; Oxidation–reduction; Kinetics (Rogers, M.S. (1248) 135)

Actin; Dynamic light scattering; Persistence length (Scharf, R.E. (1253) 129)

Polymorphism
cDNA; Gene expression; Recombinant protein; Transcription; Translation; Localization; Atomic structure (Lundström, K. (1251) 1)

Apolipoprotein A-I; Gene regulation; *cis*-regulatory element (Sorci-Thomas, M. (1256) 387)

Polymorphism, apo A
Lipoprotein(a); Apolipoprotein(a); Kringle; Mutation; Atherothrombosis (Scanu, A.M. (1256) 1)

Polymyxin analogue
Peptide conformation; ROESY spectrum; Distance-geometry calculation; Restraint molecular dynamics simulation; NMR (Liao, S.-Y. (1252) 312)

Polyol pathway
Site-directed mutagenesis; Aldose reductase; Inhibition; Kinetics; Diabetes; Rat lens (Carper, D.A. (1246) 67)

Polyoma large T antigen
DNA relaxation; Camptothecin; Scleroderma; Magnesium ion-dependent topoisomerase (Marton, A. (1262) 59)

Polyoma replication
c-*jun* overexpression; Ultraviolet irradiation; (WOP cell) (Rutberg, S.E. (1261) 90)

Polypeptide
Import mechanism; Mitochondrial inner membrane; Electrochemical potential, transbilayer (McBride, H.M. (1237) 162)

Polypeptide chain cross-linking
Cross-linking theory; Porin; Glutardialdehyde; (E. coli) (Azem, A. (1243) 151)

Polypeptide secondary structure
Interaction with cyanine; Band shifting, UV-Vis; Interaction energy; HOMO-LUMO energy; Molecular dynamics (Hermel, H. (1252) 79)

Polyphosphate
Exopolyphosphatase; Adenylate kinase; Protein purification; Sponge; (*Tethya lyncurium*) (Lorenz, B. (1245) 17)

Polyphosphate-polyamine–amine oxidase interaction
Polyphosphate-polyamine complex; Amine oxidase; Ionic strength (Luisa Di Paolo, M. (1247) 246)

Polyphosphate-polyamine complex
Amine oxidase; Polyphosphate-polyamine–amine oxidase interaction; Ionic strength (Luisa Di Paolo, M. (1247) 246)

Polyprenyl phosphate
Melanoma cell; Sugar chain, N-linked; Cell adhesion (Shirane, K. (1268) 285)

Polysaccharide
Nanoparticle; Drug carrier; Phospholipid; Gentamicin; Doxorubicin (De Miguel, I. (1237) 49)

Polysiloxane copolymer
Protein entrapment; Urease; Invertase (Venton, D.L. (1250) 117)

Protein entrapment; Polymer imprinting; Hemoglobin; Myoglobin (Venton, D.L. (1250) 126)

Polystyrene
Neutrophil; Adhesion; Arterial material; Surface modification (Wakabayashi, Y. (1243) 521)

Polysulfide reductase
Electron transport; Formate dehydrogenase; Hydrogenase; (*W. succinogenes*) (Jankielewicz, A. (1231) 157)

Polyubiquitin gene
cDNA; Deduced amino acid sequence; (Marine red alga); (*G. verrucosa*) (Zhou, Y.-H. (1261) 215)

Ubiquitin conjugation; Ubiquitin-conjugating enzyme; Proteasome; Multicatalytic proteinase; Muscle atrophy; (Crustacean) (Shean, B.S. (1264) 312)

Polyunsaturate
Fasting; Linoleate; α-Linolenate; Pregnancy; (Rat) (Cunnane, S.C. (1255) 113)

Polyunsaturated fatty acid
Lipogenic enzyme gene expression; Insulin receptor; (Rat) (Iritani, N. (1255) 1)

Beta-Oxidation; Rate-limiting step; Growth hormone; 2,4-Dienoyl-CoA reductase (Nada, M.A. (1255) 244)

Cytochrome b_5; Microsome; Desaturation; (*Mortierella*) (Kouzaki, N. (1256) 319)

Desaturation; Elongation; Cell differentiation; Leukemia; Lymphoma; (Human) (Marzo, I. (1257) 140)

1-Acyl-*sn*-glycero-3-phosphoinositol acyltransferase; Phosphatidylinositol; Substrate specificity; Acyl-CoA; Icosanoid precursor; (Rat submandibular gland microsome) (Yashiro, K. (1258) 288)

Cell differentiation; Cell growth; Premanocytic cell (U937) (Obermeier, H. (1266) 179)

Polyunsaturated fatty acid oxidation
Oxidized lipid/protein reaction; Oxidative stress; Lysine modification; Fluorescence production; Pyrrole production and polymerization (Zamora, R. (1258) 319)

Pooled genomic denaturing gradient electrophoresis
Suppressor-of-hairless gene; *Extramacrochaetae* gene; (*D. melanogaster*) (Mickey, G. (1260) 123)

Porcine kidney diamine oxidase
Dehydroputrescine; Mechanism-based inactivation; Diaminobutene; Copper-containing amine oxidase (He, Z. (1253) 117)

Pore
Fibroblast; Impedance; Cell motility; Silicon membrane (Hagedorn, R. (1269) 221)

Pore formation
Pore-forming toxin; Membrane insertion; Oligomerization; α-Toxin; (*Staphylococcus*) (Valeva, A. (1236) 213)

Pore-forming activity
Alpha helix; Amphipathic helix; Antigenicity; Membrane protein; Spiralin; Topology (Brenner, C. (1235) 161)

Pore-forming toxin
Membrane insertion; Oligomerization; α-Toxin; Pore formation; (*Staphylococcus*) (Valeva, A. (1236) 213)

Porin
VDAC; Hexokinase; Triton; Polyanion; Contact point (Báthori, G. (1234) 249)

Polypeptide chain cross-linking; Cross-linking theory; Glutardialdehyde; (E. coli) (Azem, A. (1243) 151)

Porin-less mitochondrion
Peptide-sensitive channel; Permeability transition; Patch clamp; (Yeast) (Szabó, I. (1235) 115)

Porphyria
Erythrocyte; Oxidative stress; Lipid peroxidation; Potassium ion leakage; Protoporphyrin (Williams, M. (1236) 81)

Positron emission tomography (PET)
Liposome; Long-circulating liposome; Tumor imaging (Oku, N. (1238) 86)

Tumor metastasis; Protein kinase C; Cell trafficking; RAW117 large cell lymphoma; Lymphoma cell (Koike, C. (1238) 99)

Postmenopausal osteoporosis
Estrogen; Parathyroid hormone; IGF-I; IGFBP-4 (Kudo, Y. (1245) 402)

Postnatal development
Adenine nucleotide translocase; Respiration; Mitochondrion; Flux control coefficient; (Brain) (Schönfeld, P. (1232) 75)

Posttranscriptional regulation
Insulin receptor; Gene; mRNA stability; Polyadenylation (Levy, J.R. (1263) 253)

Post-translational control
mRNA, maternal; Ornithine decarboxylase mRNA; *S*-Adenosylmethionine decarboxylase mRNA; Polyamine; Protein degradation; (*X. laevis*) (Rosander, U. (1264) 121)

Post-translational modification
γ-Glutamyl transferase; Cancer; Sugar chain; Precursor form; (Human); (Kidney) (Arai, K. (1253) 33)

Potassium
pH, intracellular; *Candida albicans*; NMR, ^{31}P; Amphotericin B; Atomic absorption (Rabaste, F. (1268) 50)

Potassium ion conductance
Hepatocyte; Progesterone; Cell membrane potential (Waldegger, S. (1266) 186)

Potassium ion
A_1 agonist activity; Agonist; Chlorocyclopentyladenosine; Membrane potential; Bisoxonol monitoring; Cerebrocortical nerve ending (Amoroso, S. (1239) 67)

Potassium ion channel, Ca^{2+}-activated
ATP receptor; Inositol 1,4,5-trisphosphate; Calcium ion release (Peres, A. (1265) 33)

Potassium ion channel, calcium-activated
Calcium ion channel, T-type; Src oncogene; $pp60^{v\text{-}src}$; NIH3T3 cell; Charybdotoxin (Draheim, H.J. (1269) 57)

Potassium ion conductance
Inner medullary collecting duct; Volume regulation; Chloride conductance; Dideoxyforskolin; Hypotonic stress; (Rat) (Sauer, H. (1239) 99)

Potassium ion leakage
Erythrocyte; Oxidative stress; Lipid peroxidation; Protoporphyrin; Porphyria (Williams, M. (1236) 81)

Potassium ion transport
Respiration; ATP synthesis; Phosphate transport; (Yeast mitochondria) (Manon, S. (1231) 282)

Potassium permanganate reactivity
Negative supercoiling; Diethyl pyrocarbonate reactivity; DNA conformation, non-B (Wölfl, S. (1264) 294)

Potential energy barrier
Ion transport; Iodine; Voltage-clamp; Lipid bilayer membrane (Klotz, K.-H. (1235) 378)

Potential-induced change in pH_i
cyclic AMP; pH, intracellular; pH-sensitive microelectrode; Short-circuit current; (Frog skin epithelium) (Lyall, V. (1240) 65)

PP3
GlyCAM-1; Mammary gland; Mastitic inflammation; Lymphocyte; Adhesion molecule (Johnsen, L.B. (1260) 116)

$pp60^{c\text{-}src}$
Synthetic peptide; Protein tyrosine kinase; Enzyme assay (Budde, R.J.A. (1248) 50)

$pp60^{v\text{-}src}$
Potassium ion channel, calcium-activated; Calcium ion channel, T-type; Src oncogene; NIH3T3 cell; Charybdotoxin (Draheim, H.J. (1269) 57)

Pravastatin
Hydroxymethylglutaryl-CoA reductase; Hydroxymethylglutaryl-CoA reductase inhibitor; Cholesterol metabolism; Species specificity; Triton WR-1339 (Fujioka, T. (1254) 7)

Lovastatin; Simvastatin; Sterol synthesis; HMG-CoA reductase inhibitor; Transport; (Human cell) (Van Vliet, A.K. (1254) 105)

Pre-B lymphoma cell line
Urokinase-type plasminogen activator (uPA); cyclic AMP; Gene expression; cyclic-AMP-dependent protein kinase (Shinbo, M. (1268) 293)

P_2 receptor
Phospholipase D; Phospholipase C; Radioligand binding; Purinergic (Malcolm, K.C. (1268) 152)

Preconditioning
NMR, ^{31}P-; High-energy phosphate; Purine; Adenosine (Bradamante, S. (1243) 1)

Precursor form
γ-Glutamyl transferase; Post-translational modification; Cancer; Sugar chain; (Human); (Kidney) (Arai, K. (1253) 33)

Precursor of D1 protein
CP43; CP47; D2; Diuron; Fluorescence induction; (*S. obliquus*) (Gong, H. (1228) 181)

Predicted amino acid sequence
Molecular cloning; DNA sequence; Ribosomal protein L11; (*Drosophila*) (Larochelle, S. (1261) 147)

Preferential binding
Methemoglobin; Organic phosphate; Self-association (Jacobsen, M.P. (1246) 17)

Pregastric lipase
Lipase; Pharyngeal tissue; *N*-Deglycosylation; Amino acid sequence alignment; (Lamb) (De Caro, J. (1252) 321)

Pregnancy
Fasting; Linoleate; α-Linolenate; Polyunsaturate; (Rat) (Cunnane, S.C. (1255) 113)

L-FABP expression; Lactation; Liver (Besnard, P. (1258) 153)

Prejunctional receptor
Neuropeptide; NMR; Structure (Barden, J.A. (1250) 83)

Premanocytic cell (U937)
Polyunsaturated fatty acid; Cell differentiation; Cell growth (Obermeier, H. (1266) 179)

Prenylcysteine
Guanine nucleotide binding protein; Rab exocyotic effector protein; HIT-T15 cell (Regazzi, R. (1268) 269)

Preprohormone
Crustacean hyperglycemic hormone; Neurohormone; (*Homarus americanus*) (De Kleijn, D.P.V. (1260) 62)

Preprotachykinin
Transcription factor AP2; Substance P; Gene transcription (Quinn, J.P. (1263) 25)

Pressure dependence
Helix-coil transition; Transition temperature; Poly[d(A-T)]; Cation (Najaf-Zadeh, R. (1262) 52)

pre-tRNA^{Tyr}
Pseudouridine 35; tRNA modification; Wheat germ extract; Plant (Szweykowska-Kulinska, Z. (1264) 87)

Primary cell culture
Phosphoenolpyruvate carboxykinase; Proximal tubule; Gluconeogenesis; (Rabbit); (Rat) (Monteil, C. (1243) 437)

Primary culture
VLDL; Triacylglycerol; Cholesteryl ester; Cholesterol; Hepatocyte; (Hamster) (Hoang, V.-Q. (1254) 37)

Primary human hepatocyte
In vitro; Icosapentaenoic acid; Oleic acid; Triacylglycerol; Apo B; Phospholipid (Lin, Y. (1256) 88)

Primary structure
α-Toxin; $^{86}Rb^+$ outflow; Islets of Langerhans; (Rat); (*Tityus serrulatus*) (Marangoni, S. (1243) 309)

Chlorocruorin; Hemoglobin; cDNA sequence; (*Sabellastarte indica*) (Suzuki, T. (1252) 189)

Primary sympathetic neuron
Choline metabolism; Nervous system (Bussière, M. (1259) 148)

Primate
Repetitive DNA; PCR; Somatic cell hybrid (Arcot, S.S. (1263) 99)

Primer extension analysis
Seminalplasmin gene; Transcriptional initiation site; Consensus sequence; Promoter activity; (Bovine) (Herbers, J. (1263) 271)

Priming
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Principal component regression
Mid-FTIR; FTIR; Attenuated total reflection; Enzyme kinetics; β-Fructosidase (Cadet, F. (1246) 142)

Prion disease
Spongiform encephalopathy; PrP sequence (Martin, T. (1270) 211)

Probe–membrane interaction
Adsorption isotherm; Fluorescent probe; 9-Aminoacridine; Transmembrane pH difference; Bacterial chromatophore (Casadio, R. (1237) 23)

Probucol
Clofibrate; ACAT; Cholesteryl ester hydrolase; Liver; (Rat) (Shand, J.H. (1255) 123)

Procathepsin L
Epididymis; PDGF; Sperm maturation (Okamura, N. (1245) 221)

Processed pseudogene
Protein kinase CK2 α subunit; cDNA; (Mouse) (Hoffmann, U. (1260) 337)

Processing endoproteinase
Prohormone convertase; Ovary; (Porcine) (Dai, G. (1264) 1)

Processivity
Exonuclease; Endonuclease; Facilitated diffusion (Lu, T. (1251) 125)

DNA polymerase; Exonuclease; (*Thermus aquaticus*) (Merkens, L.S. (1264) 243)

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Stereoselectivity; Cancer; Cultured cell; Esterase; Anticancer agent; (Rat) (Yamazaki, Y. (1243) 300)

Progeria
Hutchinson-Gilford disease; Aging; Fibroblast; Glycosylation; Lectin (Clark, M.A. (1270) 142)

Progesterone
LDL; HMG-CoA reductase; Intestinal epithelial cells, IEC-6; (Rat) (Sexton, R.C. (1255) 320)

Hepatocyte; Cell membrane potential; K^+-Conductance (Waldegger, S. (1266) 186)

Programmed cell death
Dopamine; Thymocyte; Apoptosis; Flow cytometry; X-ray microanalysis (Offen, D. (1268) 171)

Kinase; Phosphatase; Phosphoprotein (Gjertsen, B.T. (1269) 187)

Prohormone convertase
Ovary; Processing endoproteinase; (Porcine) (Dai, G. (1264) 1)

Prokaryotic quinol oxidase
Cytochrome; Cytochrome oxidase; (*B. subtilis*) (Villani, G. (1232) 67)

Proliferating cell nuclear antigen, PCNA
Icosanoid; Prostaglandin; Leukotriene; Cancer; Cell cycle; (Colon) (Qiao, L. (1258) 215)

Proliferation
DNA topoisomerase; Non-small cell lung cancer; Gene expression; Chemotherapy (Giaccone, G. (1264) 337)

CaM PKIII; Differentiation; Elongation factor 2; Phosphorylation (Nilsson, A. (1268) 263)

Proline-rich protein
Subtractive hybridization; cDNA cloning; Natural killer cell (Chen, J. (1264) 19)

Promoter
ATPase, V-; Intron; (*G. lamblia*) (Hilario, E. (1238) 94)

Acid β-glucosidase; Lysosomal enzyme; Gene regulation; (Human) (Doll, R.F. (1261) 57)

Metallothionein-I; Metal responsive element; (Chinese hamster ovary cell) (Yu, C.-W. (1262) 150)

Sodium-hydrogen antiporter; Carrier protein; (LLC-PK_1 cell) (Blaurock, M.C. (1262) 159)

MSP; Ron (Del Gatto, F. (1263) 93)

CAT assay; Heat shock; Hsp70 gene; (*S. mansoni*) (Levy-Holtzman, R. (1263) 96)

Crystallin; Gene; Evolution; Heat shock; Stress (Wistow, G. (1263) 105)

Interleukin 2; Signal transduction; T cell activation; Transcription factor (Serfling, E. (1263) 181)

ATPase, Na^+/K^+-; In vivo footprinting (Nomoto, M. (1264) 35)

Elastin; C/EBP binding site; Tissue-specific expression (Piccolo, S. (1264) 40)

Heat shock gene; Heat shock factor; Gel retardation assay; Subsite of active site; (*S. mansoni*) (Levy-Holtzman, R. (1264) 134)

Nitrous oxide reductase; NosZ; Regulation; FNR-binding site; Denitrification; Copper protein (Cuypers, H. (1264) 183)

Carnitine octanoyltransferase; cDNA; Peroxisome; Peroxisome proliferator activated receptor (Choi, S.J. (1264) 215)

Promoter activity
Seminalplasmin gene; Transcriptional initiation site; Primer extension analysis; Consensus sequence; (Bovine) (Herbers, J. (1263) 271)

CCAAT element; Histone gene; recombinant DNA; Transient CAT assay (Takami, Y. (1264) 29)

Promoter region
MDR3 P-glycoprotein; (Human) (Smit, J.J.M. (1261) 44)

Promoter structure
Mitochondrial biogenesis; Thyroid hormone; Transcriptional regulation (Nelson, B.D. (1271) 85)

Prooxidant
Ubiquinone; Antioxidant; Free radical (Ernster, L. (1271) 195)

ProP
Betaine accumulation; Osmoregulation; Betaine analogue; Osmolyte; ProU (Randall, K. (1245) 116)

Propeptide
NMR; CD; Blood clotting protein; Factor IX; Hemophilia B; Solution conformation (Cheng, J.-W. (1245) 227)

Propidium
Acetylcholinesterase; EPR; Monoclonal antibody (Grubič, Z. (1249) 155)

Propidium iodide
Magainin peptide; Ion channel; Cytolysis; Eukaryotic cell; Flow cytometry; Anti-microbial peptide (Haimovich, B. (1240) 149)

Propionate
Short-chain carboxylic acid transport; Acetate; Pyruvate; Lactate; Formate; (*T. delbrueckii*); (Yeast) (Casal, M. (1267) 122)

Propionyl-CoA
Citrate synthase; Carboxymethyl-CoA; Mutagenesis (Man, W.-J. (1250) 69)

Propionyl-CoA hydrolase
Acetyl-CoA hydrolase; Sulfur-substituted fatty acid; Mitochondrion; Peroxisome; NADH; Liver; (Rat) (Garras, A. (1255) 154)

Proportional activation
Oxidative phosphorylation; Calcium-acting hormone; Gluconeogenesis; Lactate; Pyruvate (Korzeniewski, B. (1229) 315)

Proprotein convertase
Furin; Amyloid precursor protein; Alzheimer's disease (De Strooper, B. (1246) 185)

Prostacyclin
Endothelial cell; Modulation; Nitric oxide; Nitrovasodilator drug; Tolerance (Matthews, J.S. (1269) 237)

Prostaglandin
Fish oil; Atherosclerosis; Leukotriene; HETE; Cholesterol (Surette, M.E. (1255) 185)

Cyclooxygenase 2; Macrophage; Non steroidal anti-inflammatory drug; Adhesion (Tordjman, C. (1256) 249)

Icosanoid; Leukotriene; Cancer; Cell cycle; Proliferating cell nuclear antigen, PCNA; (Colon) (Qiao, L. (1258) 215)

G protein; Signal transduction (Schwaner, I. (1265) 8)

Prostaglandin E_1
Lipid emulsion; Diffusion; Emulsion; Lipid particle; Release (Yamaguchi, T. (1256) 381)

Prostaglandin E_2
Phospholipase A_2; Elicited peritoneal macrophage; Leukotriene B_4; Cyclooxygenase; Transformation growth factor; Indomethacin; Aspirin (Bolognese, B. (1256) 201)

Phospholipase A_2; Kidney; Mesangial cell; (Rat) (Kudo, I. (1257) 11)

Transforming growth factor-β receptor; mRNA (Fine, A. (1261) 19)

Kininogen; Fibroblast; cyclic AMP; Tumor necrosis factor; Inflammation; (Mouse) (Takano, M. (1265) 189)

Kininogen; T-kininogen; Fibroblast; cyclic AMP; Cytokine (Takano, M. (1268) 107)

Human decidual cell; Interleukin-1β; cyclic AMP (Cole, O.F. (1269) 139)

Prostaglandin E receptor
Calcium ion mobilization; Phosphatidylinositol hydrolysis; Protein kinase C; Protein kinase A (Katoh, H. (1244) 41)

Prostaglandin $F_{2\alpha}$
Nitric oxide; Liver perfusion (Weidenbach, H. (1245) 181)

Prostaglandin H synthase
Thromboxane A synthase; Megakaryocyte; Differentation (Matijevic-Aleksic, N. (1269) 167)

Prostanoid
Arachidonic acid; Rhodopsin-type receptor; GTP-binding protein; Alternative splicing (Negishi, M. (1259) 109)

Prostate specific antigen
Kallikrein hK2; Protein C inhibitor (Deperthes, D. (1245) 311)

Prostate tumor
Oncogene; Apoptosis; Chemoresistance (Sinha, B.K. (1270) 12)

Protamine
Sperm-specific nuclear basic protein; Spermatogenesis; (*Xenopus*) (Mita, K. (1245) 430)

Acetylcholinesterase, asymmetric; Heparin domain; Extracellular matrix; Neuromuscular junction (Deprez, P.N. (1252) 53)

Proteasome
ATPase; Ubiquitin; Proteinase; Multicatalytic; Muscle; (Rabbit) (Akaishi, T. (1245) 331)

cDNA cloning; Multicatalytic proteinase complex; Subunit RC6-I (Ni, R. (1264) 45)

Polyubiquitin gene; Ubiquitin conjugation; Ubiquitin-conjugating enzyme; Multicatalytic proteinase; Muscle atrophy; (Crustacean) (Shean, B.S. (1264) 312)

Protein
ATPase, P-type; Major intrinsic protein (MIP); DNA sequence; Cyanobacterium; (*Synechococcus*) (Kashiwagi, S. (1237) 189)

Crystallization; Factorial design (Sedzik, J. (1251) 177)

14-3-3 protein
G-box binding complex; Signal transduction; (*Chlamydomonas*) (Liebich, I. (1263) 79)

Arabidopsis; Cell-signaling; Protein kinase C inhibitor (Zhang, H. (1266) 113)

Protein, 550 kDa
Muscle development; Skeletal muscle; (Chick embryo) (Hattori, A. (1245) 191)

Actin-binding protein; Glycoprotein; α-Actinin; Laminin; Fibronectin (Hattori, A. (1245) 201)

Protein aggregation
α-Crystallin; Chaperone; Cataract; Lens; Thermal denaturation (Rao, P.V. (1245) 439)

Protein as a dielectric
Photosynthesis; Electron transfer; Charge separation; Dielectric relaxation; Protein relaxation (Krishtalik, L.I. (1228) 58)

Proteinase
ATPase; Ubiquitin; Proteasome; Multicatalytic; Muscle; (Rabbit) (Akaishi, T. (1245) 331)

Liver; Ethanol; Lysosome; Protein degradation; Trafficking (Kharbanda, K.K. (1245) 421)

Tissue kallikrein; Peptide substrate (Brillard-Bourdet, M. (1246) 47)

Tissue kallikrein; Peptide substrate; Atrial natriuretic peptide; (Rat) (Moreau, T. (1249) 168)

Elastase; Somatostatin; (Rat); (Pancreas) (Szilagyi, C.M. (1251) 55)

Serine proteinase; Bacterial proteinase; Purification and characterization; (*B. subtilis*) (Yamagata, A. (1253) 224)

Proteinase inhibitor
Disulfide linkage; Bowman–Birk type inhibitor; Structure–activity relationship; (*D. biflorus*); (*M. uniflorum*) (Ramasarma, P.R. (1248) 35)

Aminopeptidase; Cobalt ion; Endoproteinase; Plasma membrane; Unicellular alga; (*Chlamydomonas reinhardtii*) (Langheinrich, U. (1249) 45)

HIV-1; Mutation; Nucleic acid sequence; Proteinase-resistant strain (Yamaguchi, K. (1253) 136)

Proteinase inhibitor 6
Placental thrombin inhibitor; Serine proteinase inhibitor; Serpin; Gene expression; Thrombin inhibitor; (*P. pastoris*) (Sun, J. (1252) 28)

Proteinase-resistant strain
Proteinase inhibitor; HIV-1; Mutation; Nucleic acid sequence (Yamaguchi, K. (1253) 136)

Protein binding domain
Apolipoprotein E gene; Nuclear factor; Transcriptional regulatory element; Gel mobility shift assay; (Mouse) (Paik, Y.-K. (1262) 124)

Protein body
EPR; Membrane; Molecular dynamics; Spin label; Transformation; Vacuole (Strzałka, K. (1239) 103)

Protein C
Protein S; Factor Xa; Factor Va; Prothrombin; C4b-binding protein (Hayashi, T. (1272) 159)

Protein calorimetry
Infrared spectroscopy of protein; Protein–lipid interaction; Ribosome-inactivating protein (Gasset, M. (1252) 126)

Protein carboxyl methyltransferase
Cataract; Aging (Kodama, T. (1245) 269)

Protein characterization
Leukemia inhibitory factor; hLIF; Gene expression; Expression vector; Synthetic gene; (*E. coli*); (Human) (Samal, B.B. (1260) 27)

Protein chemistry
HMG-CoA synthase; Site-directed mutagenesis; Ketogenesis; Cholesterogenesis (Misra, I. (1247) 253)

Protein C inhibitor
Kallikrein hK2; Prostate specific antigen (Deperthes, D. (1245) 311)

Protein complex formation
Thioredoxin; Reaction kinetics; Fructose 1,6-bisphosphatase; Enzyme activity; Fine regulation (Häberlein, I. (1253) 169)

Protein conformation
Glutathione *S*-transferase; Ligand binding (Bico, P. (1247) 225)

Protein conformational equilibrium
5-FdUDP synthesis; NMR, ^{19}F- and ^{1}H-; Ribonucleoside-diphosphate reductase; Nucleotide binding (Roy, B. (1247) 284)

Protein crosslinkage
LDL; Second derivative fluorescence spectroscopy; Three-dimensional fluorescence spectroscopy; Lipid oxidation (Singh, S. (1254) 135)

Protein damage
Ubiquitin; Stress tolerance; Cadmium toxicity; (*S. cerevisiae*) (Chen, Y. (1268) 59)

Protein degradation
Photosystem II; D1 protein; Herbicide; Photoinhibition (Nakajima, Y. (1230) 38)

Ultraviolet B; D1 protein degradation; Photosystem II; Reaction center (Friso, G. (1231) 41)

Liver; Ethanol; Lysosome; Proteinase; Trafficking (Kharbanda, K.K. (1245) 421)

mRNA, maternal; Ornithine decarboxylase mRNA; *S*-Adenosylmethionine decarboxylase mRNA; Polyamine; Post-translational control; (*X. laevis*) (Rosander, U. (1264) 121)

Protein denaturation
Miscible solvent; Aqueous–organic mixture; Denaturation capacity; Naphthalene solubility; Hydrophobic effect (Rosell, C.M. (1252) 158)

Protein domain
Domain folding; Domain stability; DSC; Analytical ultracentrifuge (Azuaga, A.I. (1252) 95)

Protein dynamics
NMR; Boronic acid; Serine proteinase; NMR, ^{19}F-; Nuclear Overhauser effect (Sylvia, L.A. (1252) 225)

Protein engineering
GroEL; GroES; Chaperone protein; Carbonic anhydrase II; Amino-terminal truncation; (Human) (Persson, M. (1247) 195)

Protein function; Stabilization; Subtilisin; Molecular interaction; Site-specific mutagenesis; Cytochrome *c*; Metal-mediated cross-linking (Ó Fágáin, C. (1252) 1)

Protein entrapment
Polysiloxane copolymer; Urease; Invertase (Venton, D.L. (1250) 117)

Polysiloxane copolymer; Polymer imprinting; Hemoglobin; Myoglobin (Venton, D.L. (1250) 126)

Protein expression
Phospholipid transfer protein; PLTP, human; PLTP cDNA, mouse; HDL; rPLTP; HDL interconversion (Albers, J.J. (1258) 27)

Protein folding
Gramicidin; Peptide; Lipid; Membrane (Jaikaran, D.C.J. (1234) 133)

pH; Denaturation; Intermediate; Self-association; Growth hormone; (Human) (DeFelippis, M.R. (1247) 35)

Chaperonin; GroEL; GroES; Chaperonin assembly; Chaperonin monomer (Mendoza, J.A. (1247) 209)

Alkaline phosphatase; CD; Denaturation; FTIR; Secondary structure (De La Fournière, L. (1248) 186)

Rhodanese; Disulfide; Site-directed mutagenesis; Denaturation (Horowitz, P.M. (1249) 161)

Structure of LYS(38–51); Peptide fragment; Nucleation site (Najbar, L.V. (1250) 163)

Thermophile; Protein structure; Protein thermostability; Biotechnology; (*S. solfataricus*) (Facchiano, A.M. (1251) 170)

Rhodanese; Domain; Tether; Site-directed mutation (Luo, G.-X. (1252) 165)

Protein function
Stabilization; Subtilisin; Molecular interaction; Protein engineering; Site-specific mutagenesis; Cytochrome *c*; Metal-mediated cross-linking (Ó Fágáin, C. (1252) 1)

Protein immobilization
Vesicle fusion; Lipid layer; Langmuir-Blodgett film; Atomic force microscopy; Quartz crystal microbalance (Vikholm, I. (1233) 111)

Protein isoform
Connectin; Nebulin; Muscle development; Skeletal muscle; (Chicken) (Hattori, A. (1244) 179)

Protein, 12 kDa
Oxygen evolution; Photosystem II; Extrinsic protein; Cytochrome *c*-550; (Red algae) (Enami, I. (1232) 208)

Protein, 39 kDa
Zonal heterogeneity; Receptor; Trypsin-activated α_2-macroglobulin; Lactoferrin; Transferrin (Voorschuur, A.H. (1257) 288)

Protein kinase
Phospholipase C; Arachidonic acid; Bradykinin; (MDCK-D1 cell) (Kennedy, C.R.J. (1258) 206)

Glycogen synthase kinase-3; Pollen development; Pollen embryogenesis; *shaggy*; (*N. tabacum*) (Einzenberger, E. (1260) 315)

cDNA sequence; Gene expression; (*X. laevis*) (Mukai, H. (1261) 296)

Elongation factor 1; cDNA cloning; Phosphorylation; Casein kinase (Chen, C.-J. (1264) 303)

Voltage-gated potassium ion channel; Gene expression (Takimoto, K. (1265) 22)

Intron; Homology; Tandem repeat; (Dictyostelium discoideum) (Wetterauer, B.W. (1265) 97)

Cell cycle; *cdc2*; (*Paramecium*) (Tang, L. (1265) 161)

Interleukin 1; Signal transduction; Second messenger; MAP kinase; Transcription factor (O'Neill, L.A.J. (1266) 31)

5′-AMP; Protein phosphorylation (Gao, G. (1266) 73)

Mitotic phosphorylation; Casein kinase; $p34^{cdc2}$; (Human) (Litchfield, D.W. (1269) 69)

Enzyme activity; (*L. aethiopica*) (Assefa, D. (1270) 157)

Protein kinase A
Prostaglandin E receptor; Calcium ion mobilization; Phosphatidylinositol hydrolysis; Protein kinase C (Katoh, H. (1244) 41)

G protein; Protein kinase C; cAMP; Gene regulation; (Sertoli cell) (Taskén, K.A. (1260) 269)

Synapsin I; Transcriptional regulation; cAMP responsive element; Neuronal gene expression (Hoesche, C. (1261) 249)

Protein kinase C
Sodium ion; Magnesium ion; Antiport; Amiloride; (Rat erythrocyte) (Günther, T. (1234) 105)

T lymphocyte; Signal transduction (Szamel, M. (1235) 33)

Positron emission tomography (PET); Tumor metastasis; Cell trafficking; RAW117 large cell lymphoma; Lymphoma cell (Koike, C. (1238) 99)

Arginine; Transport; System y^+; Epidermal growth factor; Transforming growth factor α; Phorbol ester (Pan, M. (1239) 27)

Prostaglandin E receptor; Calcium ion mobilization; Phosphatidylinositol hydrolysis; Protein kinase A (Katoh, H. (1244) 41)

Alkylglycerol; Arachidonic acid; Madin-Darby canine kidney; Monoglyceride; Phorbol myristate acetate (Robinson, M. (1254) 361)

Phospholipase D; Calmodulin; (Basophilic leukemia cell); (Rat) (Kumada, T. (1258) 107)

G protein; Protein kinase A; cAMP; Gene regulation; (Sertoli cell) (Taskén, K.A. (1260) 269)

Glucose transport; Insulin; Phorbol ester (Russ, M. (1265) 73)

TGF-β1; Autoinduction; Inhibition of cell proliferation; Early gene response; Human breast adenocarcinoma cell (Lafon, C. (1266) 288)

Calpain; Phorbol ester; Muscle cell (Hong, D.-h. (1267) 45)

Ornithine decarboxylase; Oncogene expression; Paraquat (Kuo, M.-L. (1268) 229)

Clusterin; Apoptosis; Steroid hormone; RU 486 (Flach, R. (1268) 325)

Hydrogen peroxide; Smooth muscle cell; DNA synthesis (Fiorani, M. (1269) 98)

Apoptosis; Calpain; Cleavage site-directed antibody; Limited proteolysis (Kikuchi, H. (1269) 253)

Diacylglycerol; Translocation PKC; Cholecystokinin; Tetradecanoyl phorbol acetate; L-364,718 (Bastani, B. (1269) 307)

Calcium ion; Calmodulin; Diarrhoea; Enterotoxin; (Rat); (*C. jejuni*) (Kanwar, R.K. (1270) 179)

Protein kinase C inhibitor
14-3-3 protein; *Arabidopsis*; Cell-signaling (Zhang, H. (1266) 113)

Protein kinase CK2 α subunit
Processed pseudogene; cDNA; (Mouse) (Hoffmann, U. (1260) 337)

Protein kinase, cyclic AMP-dependent
Catalytic subunit; Malaria; Parasitic protozoa; Sequence analysis; (*P. yoelii*) (Saito-Ito, A. (1269) 1)

Protein labeling
SH-reagent; Eosin-5-maleimide; *N*-Ethylmaleimide; HPLC (Majima, E. (1243) 336)

Protein level
Hsp70; mRNA level; (Bovine) (Gutierrez, J.A. (1260) 239)

Protein–ligand binding
Lens; α-Crystallin; ATP; Intrinsic tryptophan fluorescence spectroscopy (Palmisano, D.V. (1246) 91)

Protein–lipid association
Liposome; Erythrocyte sugar transport protein; DSC; Enzyme reconstitution; Lipid bilayer; Membrane protein; (Human) (Naderi, S. (1236) 10)

Protein–lipid binding
Polyacrylamide gel electrophoresis; Lipid vesicle; Micelle; Cholera toxin; Ganglioside; Streptavidin; Annexin (Arnold, M. (1233) 198)

Protein–lipid interaction
Colipase; Lipid binding; HPLC, reverse-phase; (Porcine pancreas) (Rugani, N. (1247) 185)

Antitumor protein; Cytotoxin; Protein unfolding; Spectroscopy; α-Sarcin (Gasset, M. (1252) 43)

Protein calorimetry; Infrared spectroscopy of protein; Ribosome-inactivating protein (Gasset, M. (1252) 126)

Apolipoprotein A-I; HDL; Amphipathic helix; Reconstituted lipoprotein; Mutant apo A-I (Brouillette, C.G. (1256) 103)

Protein MAG
Albumin-binding protein; Real-time biospecific interaction analysis (BIA); (*Streptococcus dysgalactiae*) (Jonsson, H. (1249) 65)

Protein modification
Uncoupled transport; Mutagenesis; Antiport model; Vectorial coupling; Channel (Krupka, R.M. (1236) 1)

Protein orientation
Langmuir–Blodgett film; Legumin; XPS; ESCA; (*P. sativum*) (Lebugle, A. (1248) 107)

Protein oxidation
Membrane protein; Spin labeling; Hyperoxia; Aging; Free radical (Hensley, K. (1270) 203)

Protein phosphatase
Phosphohistidine; Tight-binding inhibitor (Kim, Y. (1268) 221)

Protein phosphorylation
Light-harvesting protein; Phosphoserine; Phosphothreonine; Phosphotyrosine; (*R. capsulatus*) (Brand, M. (1231) 169)

Thylakoid membrane organization; Grana margin; Membrane domain; Aqueous two-phase partitioning; LHC II protein kinase (Stefánsson, H. (1231) 323)

Calcium-dependent protein kinase; Wheat embryo (Chang, A. (1244) 317)

Protein kinase; 5′-AMP (Gao, G. (1266) 73)

Phosphatidylinositol 3-kinase; Phosphoinositide; Manganese; Phosphatidylinositol 4,5-bisphosphate; Lipid phosphorylation (Chauhan, V.P.S. (1267) 139)

Protein polymorphism
Transmembrane protein; EGF-like superfamily; Cell differentiation; Neuroendocrine cell (Lee, Y.L. (1261) 223)

Protein–protein interaction
Lens protein; γ-Crystallin; Rotational diffusion; Self-association; Macromolecular crowding (Stevens, A. (1246) 82)

Protein purification
Polyphosphate; Exopolyphosphatase; Adenylate kinase; Sponge; (*Tethya lyncurium*) (Lorenz, B. (1245) 17)

Spermatozoa motility inhibiting factor; Cross-reactive protein (Mohan, J. (1245) 407)

Photoactive yellow protein (PYP); Immunoscreening; Immuno cross-reactivity cellular fractionation; Intracellular localization (Thiemann, B. (1253) 181)

Phospholipid transfer protein; Phosphatidylglycerol; Phosphatidylinositol; Fluorescent phospholipid; (Filamentous fungus); (*A. oryzae*) (Record, E. (1256) 18)

Protein relaxation
Photosynthesis; Electron transfer; Charge separation; Dielectric relaxation; Protein as a dielectric (Krishtalik, L.I. (1228) 58)

Protein S
Protein C; Factor Xa; Factor Va; Prothrombin; C4b-binding protein (Hayashi, T. (1272) 159)

Protein sequence
Flocculating proteins; Flocculation activity; (*Moringa oleifera* Lam) (Gassenschmidt, U. (1243) 477)

Ribosomal protein S20; DNA sequence; Sequence comparison (Nemec, A. (1263) 154)

Cytokine; Cloning; Interleukin; IL-12; Polymerase chain reaction; Nucleotide sequence (Zarlenga, D.S. (1270) 215)

Protein sequencing
Chaperone (Naylor, D.J. (1248) 75)

Protein stability
Lyophilization; FTIR; Secondary structure; Recombinant human albumin; Moisture-induced aggregation (Costantino, H.R. (1253) 69)

Protein structure
Bacteriorhodopsin; Purple membrane; Lipid–protein interaction; Methyl-substituted alkyl chain (Pomerleau, V. (1234) 221)

Ricin; Toxicity; Disulfide bond (Mohanraj, D. (1243) 399)

FTIR; Microspectrometry; Crystal (Hadden, J.M. (1248) 115)

Protein folding; Thermophile; Protein thermostability; Biotechnology; (*S. solfataricus*) (Facchiano, A.M. (1251) 170)

Protein sulfhydryl group
GSH; GSSG; Glutathione-protein mixed disulfide; NADPH; Oxidative stress (Rossi, R. (1243) 230)

Protein synthesis
Chromaffin; Synexin; Secretion; Cycloheximide; Actinomycin D (Cardenas, A.M. (1234) 255)

Taurine transporter; Adaptive response; mRNA level; RNA synthesis; Choriocarcinoma cell; (Placenta) (Jayanthi, L.D. (1235) 351)

Retinol; Secretion; Retinal pigment epithelium; Transthyretin; Retinol binding protein (Jaworowski, A. (1245) 121)

cDNA; Evolution; Intron (Bäuerle, A. (1260) 223)

Initiation factor; Gene; (Rat) (Flowers, K.M. (1264) 163)

Mitochondrion; Elongation factor; Molecular evolution (Woriax, V.L. (1264) 347)

Proteoglycan; Glycosaminoglycan; 3-Deoxy-D-galactose; D-Glucuronic acid analogue; Glycosaminoglycan synthesis; Hepatocyte (Thomas, S.S. (1272) 37)

Protein synthesis (inhibition)
Ribosomes; Ribosome-inactivating proteins; 23 S rRNA N-glycosidase; (*S. lividans*) (Ferreras, J.M. (1243) 85)

Protein thermostability
Protein folding; Thermophile; Protein structure; Biotechnology; (*S. solfataricus*) (Facchiano, A.M. (1251) 170)

Protein translocation
Crenarchaeota; secY gene; Transcription unit; (*S. acidocaldarius*) (Kath, T. (1264) 155)

Protein transport
Cytochrome-*c* reductase; bc_1 complex; Respiratory chain; Mitochondrion; (*S. tuberosum*) (Braun, H.-P. (1229) 181)

Protein turnover
Polyamine; *S*-Adenosylmethionine decarboxylase; Translational regulation; COS cell (Svensson, F. (1260) 21)

Protein tyrosine kinase
$pp60^{c\text{-}src}$; Synthetic peptide; Enzyme assay (Budde, R.J.A. (1248) 50)

$p56^{kk}$; T-lymphocyte; Splicing (Vogel, L.B. (1264) 168)

Calcium; Icosanoid; Histamine; Mast cell; (Rat) (Van Haaster, C.M.C.J. (1265) 79)

Protein tyrosine kinase $pp60^{c\text{-}src}$
Tyrosine phosphorylation; Platelet; Cytoskeleton; Translocation; (Human) (Altmüller, A. (1265) 61)

Protein tyrosine phosphatase
Mitogen-activated protein kinase; Growth factor signalling (Keyse, S.M. (1265) 152)

Insulin receptor; Tyrosine phosphorylation; Skeletal muscle; Tyrosine kinase (Ahmad, F. (1248) 57)

Protein unfolding
Antitumor protein; Cytotoxin; Spectroscopy; Protein–lipid interaction; $\hat{\alpha}$-Sarcin (Gasset, M. (1252) 43)

Dihydrofolate reductase; Activation; Inactivation; Urea (Fan, Y.-x. (1252) 151)

Stabilization; Chaotropic agent; Polyhydric compound; Water structure; Fourier transform Raman spectroscopy (Taylor, L.S. (1253) 39)

Proteoglycan
Fibrocartilage; Dermatan sulfate; Temporomandibular joint disc (Scott, P.G. (1244) 121)

Glycosaminoglycan; Heparan sulfate; Endothelial cell (Pye, D.A. (1266) 235)

Glycosaminoglycan; Sulfation; B cell differentiation; Syndecan (Engelmann, S. (1267) 6)

Glycosaminoglycan; 3-Deoxy-D-galactose; D-Glucuronic acid analogue; Glycosaminoglycan synthesis; Protein synthesis; Hepatocyte (Thomas, S.S. (1272) 37)

Proteoglycan synthesis
[^{35}S]Sulfate incorporation; Des (1-3) IGF-I; Monolayer (Sunic, D. (1245) 43)

Proteoliposome
Membrane protein; Reconstitution; Liposome; Energy transduction (Rigaud, J.-L. (1231) 223)

Lysosome; Sulfate transport (Koetters, P.J. (1244) 311)

3β-Hydroxy-5-ene steroid dehydrogenase/Δ^5-Δ^4-ene isomerase; Steroidogenesis; (Bovine adrenal) (Yamazaki, T. (1257) 293)

Proteolysis
Aminopeptidase; Blue-green alga; Cyanobacterium; (*Anabaena*) (Niven, G.W. (1253) 193)

Elongation factor eEF-2; Fragment (Dumont-Miscopein, A. (1263) 221)

Proteolytic enzyme
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Proton
Photosystem II; Water oxidation; Photoactivation; Chlorophyll fluorescence; Electrochromism (Delrieu, M.J. (1231) 47)

Reaction center; Purple bacterium; Photosynthesis (Agalidis, I. (1232) 180)

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Brush-border membrane; Intestine; Epithelium; Caco-2 cell; pH, intracellular (Thwaites, D.T. (1234) 111)

Proton gradient
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Pyrophosphatase, H^+-; Metabolic inhibitor; Pyrophosphate; Vacuole; (*A. pseudoplatanus* cells) (Macrì, F. (1229) 323)

Proton leakage
Mitochondrial function; Cardiolipin; Aging (Ames, B.N. (1271) 165)

Proton motive force
Chemotaxis; Motility; De-energization; Flagellar motor; Arsenate (Welch, M. (1268) 81)

Protonophore
Palmitic acid; Mitochondrial membrane; Phospholipid bilayer; Oxidative phosphorylation; Magnesium ion (Shinohara, Y. (1228) 229)

Proton/peptide cotransport
cDNA cloning; Functional expression; β-Lactam antibiotic; (Human kidney) (Liu, W. (1235) 461)

Proton/peptide cotransporter
PEPT 2; High affinity transporter; Chromosomal localization; (Human kidney) (Ramamoorthy, S. (1240) 1)

Proton permeability
Plasmalemma; Nitrate transport; Fluorescence quenching; (Cyanobacterium) (Zinovieva, M. (1230) 91)

Proton pump
Vacuolar ATPase; ATPase, F-type; Vacuole; Gamma subunit; (*Neurospora crassa*) (Bowman, E.J. (1237) 95)

Cytochrome *c* oxidase; Nucleotide binding; Tissue-specific isozyme; Subunit composition; Leigh's syndrome (Kadenbach, B. (1271) 103)

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Photosynthesis; Photosystem II; Core particle; Water oxidation; Oxygen evolution; Electron transfer; Dark adaptation, repetitive (Bögershausen, O. (1230) 177)

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Transhydrogenase; Mitochondrion; Liposome; Membrane protein (Sazanov, L.A. (1231) 304)

Proton transport
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Transient expression; Coelectroporation; Monoclonal antibody; Lipoxygenase; (*L. culinaris*) (Maccarrone, M. (1243) 136)

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Linolenic acid; Lipoxygenase; Plasma membrane; (*Helianthus annuus* L.) (Vianello, A. (1255) 57)

Lipoxygenase; Antisense RNA; Electroporation; RNA; (Lentil); (*Lens culinaris*) (Maccarrone, M. (1259) 1)

Protoporphyrin
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Oligonucleotide conjugate; Macrophage; Drug delivery; (*Leishmania amazonensis*) (Mishra, R.K. (1264) 229)

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Psoralen
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Pteridine
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Galactitol; *gat* operon; DNA sequence; (*E. coli*); (Strain EC3132) (Nobelmann, B. (1262) 69)

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Pulmonary surfactant
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Surfactant-associated protein; Circular dichroism; Secondary structure; Intrinsic fluorescence; Organic solvent (Cruz, A. (1255) 68)

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β-Citryl-L-glutamate-hydrolyzing enzyme; (Rat testis) (Asakura, M. (1250) 35)

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β-Glucosidase; Characterization; Glucose-enhanced glucosidase; (Streptomycete) (Pérez-Pons, J.A. (1251) 145)

Novel valine dehydrogenase; Characterization; Valine dehydrogenase; (*S. aureofaciens*) (Nguyen, L.T. (1251) 186)

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Nuclease; Characterization; DNA; RNA; (*E. chrysanthemi*) (Moulard, M. (1262) 133)

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Purine nucleotide synthesis
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Pyridine nucleotide transhydrogenase
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Pyridoxal 5′-phosphate
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Active site; Enzyme inactivation; Structure–function relationship; Cofactor-dependent enzyme (John, R.A. (1248) 81)

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Pyridoxamine phosphate oxidase
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Pyridoxol phosphate oxidase
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Pyrimidine nucleotide synthesis
Purine nucleotide synthesis; Salvage and de novo nucleotide synthesis; Zidovudine; Antiviral agent (Agarwal, R.P. (1266) 223)

Pyrolidine dithiocarbamate
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Pyrone hydroperoxide
Chemiluminescence; Enolization; Glycation; Hydrogen peroxide; Maillard reaction (Lertsiri, S. (1245) 278)

Pyrophosphatase, H^+-
Metabolic inhibitor; Proton gradient; Pyrophosphate; Vacuole; (*A. pseudoplatanus* cells) (Macrì, F. (1229) 323)

Pyrophosphate
Pyrophosphatase, H^+-; Metabolic inhibitor; Proton gradient; Vacuole; (*A. pseudoplatanus* cells) (Macrì, F. (1229) 323)

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Pyrrole production and polymerization
Oxidized lipid/protein reaction; Polyunsaturated fatty acid oxidation; Oxidative stress; Lysine modification; Fluorescence production (Zamora, R. (1258) 319)

Pyruvate
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Pyruvate dehydrogenase complex
α-Keto acid dehydrogenase complex; Active site; Chemical modification; Arginine (Eswaran, D. (1252) 203)

Pyruvate-ferredoxin oxidoreductase
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Redox property; Activation; EPR; Mechanism of ATP production; Pyruvate-ferredoxin oxidoreductase; (*D. africanus*) (Pieulle, L. (1250) 49)

Pyruvate kinase
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Quercetin monoglucoside
Quercetin; Flavonoid; Antioxidative activity; Lipid peroxidation (Ioku, K. (1234) 99)

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Rab7
GTPase, small; Nucleotide sequence (Vitelli, R. (1264) 268)

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Radiation
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Leghemoglobin; Hydrogen peroxide; Ferryl; EPR; Oxidative damage; Nitrogen fixation; Root nodule (Moreau, S. (1251) 17)

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D1-D2-cytochrome *b*-559 complex; Photosystem II; Magnetic field effect; Temperature dependence; Absorbance difference spectra (Van der Vos, R. (1228) 73)

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Radioactive tracer analysis
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Radiochemical assay
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Calcium; Allosteric regulation; Antigen-antibody interaction; Cyclic nucleotide (Patrinellis, A.C. (1243) 143)

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K*rev*-1/*rap* 1/ *smg* 21 protein; Brain; Spinal cord; Subcellular distribution; Synaptosome (Urayama, O. (1243) 446)

Rate constant
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Site-directed mutagenesis; Aldose reductase; Inhibition; Kinetics; Polyol pathway; Diabetes (Carper, D.A. (1246) 67)

Rat liver epithelial cell
Transforming growth factor-β; Receptor; c-*fos*; Transfection (Mercier, T. (1266) 64)

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Rat submandibular gland
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[^{3}H]Rauwolscine
α_2-Adrenoceptor subtype; Ligand binding; [^{3}H]Atipamezole; [^{3}H]RX 821002; Recombinant cell line (Halme, M. (1266) 207)

RAW117 large cell lymphoma
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15-HETE; Binding; Subcellular; Lipoxygenase (Kang, L.-T. (1256) 297)

$^{86}Rb^+$ outflow
α-Toxin; Primary structure; Islets of Langerhans; (Rat); (*Tityus serrulatus*) (Marangoni, S. (1243) 309)

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Fluorescence; Pheophytin; Photosynthesis; Spinach (Mimuro, M. (1232) 81)

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Dihydrodiol dehydrogenase; Aldo/keto reductase; Indanol; Bile acid (Nanjo, H. (1244) 53)

Tyrosinase; Melanogenesis; Monophenolase activity; Diphenolase activity (Sánchez-Ferrer, Á. (1247) 1)

β-Glucanase, (1 → 3)-; β-Glucanase, (1 → 3,1 → 4)-; NMR; (Barley); (*E. coli*); (*L. digitata*) (Chen, L. (1253) 112)

Reactive oxygen intermediate
NF-κB; *N*-Acetylcysteine; Pyrolidine dithiocarbamate; Diamide; Antioxidant (Brennan, P. (1260) 167)

Reactive oxygen species
Bilirubin; Antioxidant; Gunn rat; Lipid-peroxidation (Joshi, M. (1243) 244)

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Lymphocyte activation; Gene expression; Transcription factor; Interleukin 2; Cellular redox state (Goldstone, S.D. (1263) 114)

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Oncogene; Bcl-2; Cell death (Korsmeyer, S.J. (1271) 63)

Real-time biospecific interaction analysis (BIA)
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Zonal heterogeneity; Trypsin-activated α_2-macroglobulin; Protein, 39 kDa; Lactoferrin; Transferrin (Voorschuur, A.H. (1257) 288)

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Transforming growth factor-β; c-*fos*; Transfection; Rat liver epithelial cell (Mercier, T. (1266) 64)

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C1s; Serine proteinase; BCMGsNeo; Anti-peptide antibody; (Human); (Hamster) (Toyoguchi, T. (1250) 90)

Recombinant α_1-antitrypsin
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Transfer vector; Translational initiation; Insect cell; T7 expression system; Heparin-affinity chromatography; Mitogen (Hills, D. (1260) 14)

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Squalene synthase; Cholesterol biosynthesis; cDNA cloning; (Mouse liver) (Inoue, T. (1260) 49)

Recombinant expression
ATP-binding site; Peptide analysis; Glycine-rich loop; Creatine kinase; Autophosphorylation (Hemmer, W. (1251) 81)

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Reconstitution
Cytochrome-*c* oxidase; Tetraether lipid (Elferink, M.G.L. (1230) 31)

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Hepatitis B surface antigen; Acidic phospholipid; Antigenicity (Gómez-Gutiérrez, J. (1233) 205)

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Red alga
Kinase inhibitor; Phosphatase inhibitor; State transition (Delphin, E. (1232) 91)

Red blood cell
Glutamate transport; Sodium ion dependence; Kinetics; Harmaline; (HK dog) (Fujise, H. (1239) 22)

Palmitoylation; Ghost; Acylation; Hydroxylamine (Schmidt, M.F.G. (1257) 205)

Red blood cell
Calcium; Cobalt; Hydrogen peroxide; Cell membrane; Senescence; NMR (Aiken, N.R. (1270) 52)

Red cell
Fusion; Lysis; Erythrocyte; HIV; AIDS; HIV glycoprotein 41 000 (gp41); Membrane; Peptide; Melittin; Calcium ion (Mobley, P.W. (1271) 304)

Redox cycle
Superoxide anion; Lipid peroxidation; Mitochondrion; Submitochondrial particle; Respiratory chain; (Rat liver) (Klöhn, P.-C. (1229) 363)

Redox equilibrium
Light/dark modulation; Chloroplast enzyme; NADP-malate dehydrogenase; Fructose-bisphosphatase; Phosphoribulokinase; Metabolite effect (Faske, M. (1247) 135)

Redox gradient
Liver acinus; Glucagon perfusion; (Rat) (Sato, B. (1268) 20)

Redox potential
Superoxide dismutase; EPR; Copper-zinc superoxide dismutase; Iron superoxide dismutase; (Bovine); (*E. coli*) (Verhagen, M.F.J.M. (1244) 99)

Redox property
Pyruvate-ferredoxin oxidoreductase; Activation; EPR; Mechanism of ATP production; Pyruvate-ferredoxin oxidoreductase; (*D. africanus*) (Pieulle, L. (1250) 49)

Redox state
Hepatocyte; Gluconeogenesis; Ethanol oxidation; Asparagine; Ammonia; (Rat) (Efthivoulou, M.-A. (1244) 303)

Aging; HPLC; Mercaptalbumin; Nonmercaptalbumin; Serum albumin; (Human) (Era, S. (1247) 12)

Redox titration
Photosynthesis; Photosystem II; Q_A; Fluorescence (Krieger, A. (1229) 193)

Photosynthesis; Photosystem II; Photoinhibition; Fluorescence (Johnson, G.N. (1229) 202)

Cytochrome *b*-559; High redox potential form; Photosystem II; Calcium; Thylakoid membrane (McNamara, V.P. (1231) 289)

Reductase domain
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Reduction
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Refolding
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Refsum
Alpha-oxidation; 3-Methyl-branched fatty acid; Phytanic acid; Peroxisome; Iron (Croes, K. (1255) 63)

Regeneration
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Glucose transporter; Transport mutant; Glucose starvation; Myogenic differentiation; (Myoblast) (Lu, Z. (1234) 155)

Glucolipid; Phase equilibrium; NMR, ^2H-; Membrane (Niemi, A.R. (1239) 186)

Thymidine kinase 1, cytosolic; ATP activation; Azidothymidine; Nucleoside analog (Munch-Petersen, B. (1250) 158)

Lecithin:cholesterol acyltransferase; Apo A-I; Liver; TGF-β; IL-6; mRNA; Dexamethasone; HepG2 cell (Skretting, G. (1255) 267)

Hydroxyurea; c-jun; Transcription; Erythroid; Differentiation (Adunyah, S.E. (1263) 123)

Promoter; Nitrous oxide reductase; NosZ; FNR-binding site; Denitrification; Copper protein (Cuypers, H. (1264) 183)

Regulatory volume decrease
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Rehydration
Dehydration; Hemolysis; Melittin; Divalent cation; Membrane lesion (Rudenko, S.V. (1235) 1)

Relaxation kinetics
Photoacoustic diagnostics; Photoinduced volume change; Reaction center; Nonlinear optimization; (*R. sphaeroides*) (Puchenkov, O.V. (1231) 197)

Relaxation process, ^{13}C
Sterol function; NMR order parameter; Transverse deuteron relaxation; Cross polarization spin dynamics; Cooperative lipid motion (Urbina, J.A. (1238) 163)

Relaxation time
Saturation transfer; Dilution; Rate constant; NMR, ^{31}P-; Creatine kinase (Conrad, A. (1243) 117)

Relay pathway
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Release
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Remnant
Lipoprotein; Lipoprotein lipase; Lactoferrin; Chylomicron; Liver; Cholesterol; Hepatic lipase; Hepatocyte; Phospholipase A_1; (Transgenic mouse) (Chang, S. (1256) 81)

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Liposome; pH gradient; Calcium acetate gradient; 5(6)-Carboxyfluorescein; Nalidixic acid (Clerc, S. (1240) 257)

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Renal proximal tubule
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Reorientationally hindered water
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Reoxygenation
Anoxia; Cell injury; Lactic dehydrogenase; Oxygen free radical; Superoxide; Allopurinol; Antimycin; Diphenyleniodonium; Superoxide dismutase; Tetramethylpiperidine-1-oxyl (Caraceni, P. (1268) 249)

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Repeat sequence
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Reperfusion
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Mitochondrial myopathy; Skeletal muscle mitochondrion; Forebrain mitochondria; Respiratory chain; Oxidative phosphorylation; Ischemia (Lee, C.P. (1271) 21)

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Repetitive DNA
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Repressor
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Reproduction
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Resistance to arabinosyl nucleotide
DNA polymerase; Aphidicolin resistance; 3′ Exonuclease activity; (Chinese hamster ovary cell) (Fehér, Z. (1263) 141)

Resonance assignment
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Resonance Raman spectroscopy
Ligation; Double mutant; Myoglobin; (Porcine) (Anderton, C.L. (1253) 1)

Respiration
Alkaliphile; Cytochrome; Oxidative phosphorylation (Hicks, D.B. (1229) 303)

ATP synthesis; Potassium ion transport; Phosphate transport; (Yeast mitochondria) (Manon, S. (1231) 282)

Mitochondrion; Oxidative phosphorylation; pH, intracellular; Anoxia; (*Artemia*) (Kwast, K.E. (1232) 5)

Adenine nucleotide translocase; Mitochondrion; Postnatal development; Flux control coefficient; (Brain) (Schönfeld, P. (1232) 75)

Enzyme; Oxyanion reduction; Nitrogen oxide reduction; Electron transport; Denitrification (Berks, B.C. (1232) 97)

Respiratory burst
NADPH oxidase; Flavocytochrome *b*-559; Oxygen activation (Koshkin, V. (1232) 225)

Arachidonic acid; Second messenger; Neutrophil; Phospholipase (Ely, E.W. (1258) 135)

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Facultative phototroph; Cytochrome *b*; Cytochrome *c*; Membrane-bound oxidase; (*Rf. fermentans*) (Hochkoeppler, A. (1229) 73)

Cytochrome-*c* reductase; bc_1 complex; Protein transport; Mitochondrion; (*S. tuberosum*) (Braun, H.-P. (1229) 181)

Redox cycle; Superoxide anion; Lipid peroxidation; Mitochondrion; Submitochondrial particle; (Rat liver) (Klöhn, P.-C. (1229) 363)

Electron transfer; Electrostatic interaction; Steady-state kinetics; (*P. denitrificans*) (Witt, H. (1230) 74)

Mitochondrial myopathy; Skeletal muscle mitochondrion; Forebrain mitochondria; Oxidative phosphorylation; Ischemia; Reperfusion (Lee, C.P. (1271) 21)

Respiratory chain complex
Electrophoresis; Peroxidation; Mitochondrion; (Rat liver) (Reinheckel, T. (1239) 45)

Respiratory complex
Muscular biopsy; Mitochondrion; Citrate synthetase; Cytochrome-*c* oxidase; (Human muscle) (Lefai, E. (1228) 43)

Respiratory disease
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Respiratory distress syndrome
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Cytochrome *c*; Electron transport; Nitrogen fixation; (*A. vinelandii*) (Ng, T.C.N. (1230) 119)

Restraint molecular dynamics simulation
Polymyxin analogue; Peptide conformation; ROESY spectrum; Distance-geometry calculation; NMR (Liao, S.-Y. (1252) 312)

Restriction enzyme
Ethylnitrosourea; DNA damage; Alkyl adduct; DNA repair; Plasmid vector; Restriction protection; Immunoprobing; (*E. coli*) (Musarrat, J. (1263) 201)

Restriction protection
Ethylnitrosourea; DNA damage; Alkyl adduct; DNA repair; Plasmid vector; Restriction enzyme; Immunoprobing; (*E. coli*) (Musarrat, J. (1263) 201)

Reticulocyte
Percolation theory; Adenylate cyclase; Fluorescence recovery; FRAP; Plasma membrane (Zakharova, O.M. (1236) 177)

Ethanol; Glycerolipid; Acylation; Liposynthesis; (Rat) (Le Petit-Thevenin, J. (1257) 103)

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Reticuloendothelial system
Liposome; Phosphatidylserine; Opsonin; Complement; Erythrocyte (Liu, D. (1235) 140)

Retinal binding protein
Schiff base; Water pool; Surfactant; Retinylidine; Hydrogen bonding (Singh, A.K. (1245) 167)

Retinal degeneration
Phosducin; Candidate gene; (Cat) (Gorin, M.B. (1260) 323)

Retinal pigment epithelium
Retinol; Protein synthesis; Secretion; Transthyretin; Retinol binding protein (Jaworowski, A. (1245) 121)

Retinoic acid
Arachidonic acid; 20-Hydroxyarachidonic acid; Peroxisome proliferation; Fatty acyl-CoA oxidase; Catalase; Synergistic effect; Retinoid X receptor; (Morris Hepatoma 7800C1 cell) (Sohlenius, A.-K. (1258) 257)

Cell differentiation; HL-60 cell; Thymus extract (Schulze-Forster, K. (1265) 110)

Articular chondrocyte; Transglutaminase activity; Collagen synthesis; Aging; Differentiation (Demignot, S. (1266) 163)

Monocyte; Cell differentiation; 1,25-Dihydroxyvitamin D_3; Superoxide anion (Obermeier, H. (1269) 25)

Retinoid X receptor
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Retinol
β-Lactoglobulin; Serum albumin; Palmitic acid; Caco-2 cell line; (Bovine) (Puyol, P. (1236) 149)

Protein synthesis; Secretion; Retinal pigment epithelium; Transthyretin; Retinol binding protein (Jaworowski, A. (1245) 121)

Endoplasmic reticulum; Golgi apparatus; Retinol-binding protein; 55 kDa protein; Vitamin A (Paulik, M. (1266) 273)

Retinol binding protein
Retinol; Protein synthesis; Secretion; Retinal pigment epithelium; Transthyretin (Jaworowski, A. (1245) 121)

Endoplasmic reticulum; Golgi apparatus; Retinol; 55 kDa protein; Vitamin A (Paulik, M. (1266) 273)

Retinyl ester hydrolase
Vitamin A; Liver stellate cell; (Rat) (Azaïs-Braesco, V. (1259) 271)

Retinylidine
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Retro derivative
Antigenicity; Topochemically related peptide; Affinity chromatography; Inverso derivative; (Rabbit) (Verdoliva, A. (1253) 57)

Retrotransposon
IAP; Aging; Gene tagging; (Mouse liver) (Dupressoir, A. (1264) 397)

Reverse cholesterol transport
Cholesteryl ester transfer protein; Lipoprotein (Ohnishi, T. (1254) 117)

Cholesterol efflux; HDL; LDL; HDL, preβ; Lipoprotein secretion; HepG2 cell; Fibroblast; (Human) (Sviridov, D. (1256) 210)

Atherosclerosis; Cholesterol efflux; Cholesterol uptake; Smooth muscle cell; Macrophage; HepG2 cell (Stein, O. (1257) 174)

Gas-phase cigarette smoke; Lecithin:cholesterol acyltransferase (Bielicki, J.K. (1258) 35)

Cholesteryl ester transfer protein; Lipoprotein (Takahashi, F. (1258) 70)

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Butyrylcholinesterase; Hydrostatic pressure; Soman (Clery, C. (1253) 85)

Amino phospholipid; Fluorescence anisotropy; Peroxidation; Aggregation (Wang, J.-Y. (1236) 228)

Reverse transcriptase
Inhibition; Modified polynucleotide (Tőkés, S. (1261) 115)

Reverse transcriptase–polymerase chain reaction
Cation channel; Inner medullary collecting duct; Sodium ion transport; PCR; (Mouse kidney) (Karlson, K.H. (1236) 197)

Revertant
Multidrug resistance; P-glycoprotein; *MDR*1; Drug transport (Yusa, K. (1269) 260)

RFLP
GABA/benzodiazepine receptor; γ-Aminobutyric acid; Epilepsy; Alcohol; cDNA; Gene mapping; (Mouse) (Kamatchi, G.L. (1261) 134)

R–G complex
A_1 adenosine receptor; Allosteric enhancer; PD 81,723 (Bhattacharya, S. (1265) 15)

RGD
Type VI collagen; Chondrocyte; Cartilage; Cell attachment; Integrin (Marcelino, J. (1249) 180)

Rho
Periodontal ligament fibroblast; Mechanical stretching; Mechanotransduction; GTPase, small; Rab (Basdra, E.K. (1268) 209)

Rhodamine-123
Mitochondrion; Flow cytometry; Membrane potential; (Rat liver) (López-Mediavilla, C. (1232) 27)

Macrophage; U-937 cell; fMLP; Superoxide ion; Fura-2; Dihydrorhodamine-123 (Bueb, J.-L. (1244) 79)

Rhodanese
Disulfide; Site-directed mutagenesis; Protein folding; Denaturation (Horowitz, P.M. (1249) 161)

Domain; Tether; Site-directed mutation; Protein folding (Luo, G.-X. (1252) 165)

Rhodopsin-type receptor
Prostanoid; Arachidonic acid; GTP-binding protein; Alternative splicing (Negishi, M. (1259) 109)

Riboflavin
Carnitine; Complex I deficiency; Encephalomyopathy; Lactic acidemia; Mitochondrion; Myopathy; Oxidative phosphorylation (Scholte, H.R. (1271) 75)

Riboflavin transport
Membrane vesicle; (Rat liver) (Said, H.M. (1236) 244)

Riboflavin uptake
Oocyte; (*X. laevis*) (Dyer, D.L. (1234) 15)

Ribonuclease
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Ribonuclease A
Binding site; Catalysis; Structure; Enzyme kinetics (Nogués, M.V. (1253) 16)

Ribonucleoside-diphosphate reductase
5-FdUDP synthesis; NMR, ^{19}F- and ^{1}H-; Nucleotide binding; Protein conformational equilibrium (Roy, B. (1247) 284)

Ribonucleotide
ATPase; Acid phosphatase; Alkaline phosphatase; Phosphatase; ATP degradation; (*A. niger*) (Elzainy, T.A. (1239) 91)

Ribonucleotide reductase
EPR; azidoCDP; Suicide inhibitor (Behravan, G. (1264) 323)

Ribosomal gene cluster
Transcription unit; SRP-receptor; Secretory component secEp; (*S. acidocaldarius*) (Moll, R. (1261) 315)

Ribosomal protein
DNA sequence; Gene expression; mRNA; (Human) (Frigerio, J.-M. (1262) 64)

Colon cancer; Gastric cancer; Subtractive cDNA hybridization; Ubiquitin; UbA52; UbA80; Cancer (Barnard, G.F. (1272) 147)

Ribosomal protein L11
Molecular cloning; DNA sequence; Predicted amino acid sequence; (*Drosophila*) (Larochelle, S. (1261) 147)

Ribosomal protein L22
cDNA; Human EAP; (Rat) (Chan, Y.-L. (1260) 113)

Ribosomal protein S20
DNA sequence; Protein sequence; Sequence comparison (Nemec, A. (1263) 154)

Ribosome
Protein synthesis (inhibition); Ribosome-inactivating proteins; 23 S rRNA N-glycosidase; (*S. lividans*) (Ferreras, J.M. (1243) 85)

Ribosome-inactivating protein
RNA *N*-glycosidase; Isoform; Cytotoxic protein; (*C. camphora*) (Ling, J. (1252) 15)

Protein calorimetry; Infrared spectroscopy of protein; Protein–lipid interaction (Gasset, M. (1252) 126)

Ribosomes; Protein synthesis (inhibition); 23 S rRNA N-glycosidase; (*S. lividans*) (Ferreras, J.M. (1243) 85)

Ribosome structure
Acidic ribosomal phosphoprotein; Heterologous expression; (*S. cerevisiae*); (*D. discoideum*) (Bermejo, B. (1263) 45)

Rice allergen
Multigene family; α-Amylase/trypsin inhibitor family; Plant lipid transfer protein (Alvarez, A.M. (1251) 201)

Ricin
Toxicity; Protein structure; Disulfide bond (Mohanraj, D. (1243) 399)

Rieske center
EPR; Iron-sulfur center; Ferredoxin; Monooxygenase; Dioxygenase; (*P. putida*) (Rosche, B. (1252) 177)

Ripple phase
Sterol; Phospholipid; X-ray diffraction; Lipid phase behavior (Cunningham, B.A. (1233) 75)

RNA
Lipoxygenase; Antisense RNA; Protoplast; Electroporation; (Lentil); (*Lens culinaris*) (Maccarrone, M. (1259) 1)

Nuclease; Purification; Characterization; DNA; (*E. chrysanthemi*) (Moulard, M. (1262) 133)

RNA editing
gRNA; gRNA-protein complex (Shu, H.H. (1261) 349)

RNA end
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RNA-helicase
RNA unwinding; DEAD-box protein; Gene family; (Tobacco) (Brander, K.A. (1261) 442)

RNA *N*-glycosidase
Ribosome-inactivating protein; Isoform; Cytotoxic protein; (*C. camphora*) (Ling, J. (1252) 15)

RNA polymerase
rpoB gene; Nucleotide sequence; (*S. aureus*) (Aboshkiwa, M. (1262) 73)

RNA polymerase II
Transcription; Phosphorylation (Dahmus, M.E. (1261) 171)

RNA synthesis
Taurine transporter; Adaptive response; mRNA level; Protein synthesis; Choriocarcinoma cell; (Placenta) Jayanthi, L.D. (1235) 351

RNA transcript
Kinase; Carboxy-terminus; Isoform pattern (Laughner, B. (1263) 67)

RNA unwinding
RNA-helicase; DEAD-box protein; Gene family; (Tobacco) (Brander, K.A. (1261) 442)

antisense mRNA
CFTR expression; Cystic fibrosis; Down-regulation; (HT29-derived cell line) (Wardle, C.J.C. (1261) 417)

gRNA
gRNA-protein complex; RNA editing (Shu, H.H. (1261) 349)

gRNA-protein complex
gRNA; RNA editing (Shu, H.H. (1261) 349)

mRNA
Sucrase-isomaltase; Dietary carbohydrate; Long-chain triacylglycerol; Medium-chain triacylglycerol; Jejunum; (Rat) (Yasutake, H. (1243) 270)

Branched-chain 2-oxo acid dehydrogenase complex; Physical training; Mitochondrial DNA; (Rat skeletal muscle) (Fujii, H. (1243) 277)

N-glycosylation; *ALG7* gene; GPT activity (Kukuruzinska, M.A. (1247) 51)

Lecithin:cholesterol acyltransferase; Apo A-I; Liver; TGF-β; IL-6; Regulation; Dexamethasone; HepG2 cell (Skretting, G. (1255) 267)

Transforming growth factor-β receptor; Prostaglandin E_2 (Fine, A. (1261) 19)

mRNA precursor; Polyadenylation; 3′-End cleavage (Wahle, E. (1261) 183)

DNA sequence; Gene expression; Ribosomal protein; (Human) (Frigerio, J.-M. (1262) 64)

Platelet-derived growth factor; Receptor; v-*src* Transformation; (Rat kidney fibroblast) (Zhang, Q.-X. (1266) 9)

mRNA level
Taurine transporter; Adaptive response; Protein synthesis; RNA synthesis; Choriocarcinoma cell; (Placenta) (Jayanthi, L.D. (1235) 351)

Pulmonary surfactant; Surfactant-associated protein; Glucocorticoid; Transcription; Fetal development; Respiratory distress syndrome (Xu, J. (1254) 302)

Hsp70; Protein level; (Bovine) (Gutierrez, J.A. (1260) 239)

mRNA, maternal
Ornithine decarboxylase mRNA; *S*-Adenosylmethionine decarboxylase mRNA; Polyamine; Protein degradation; Post-translational control; (*X. laevis*) (Rosander, U. (1264) 121)

mRNA metabolism
Megakaryocytic differentiation; Globin mRNA; mRNA decay; Gene expression (Lumelsky, N.L. (1261) 265)

mRNA precursor
mRNA; Polyadenylation; 3′-End cleavage (Wahle, E. (1261) 183)

mRNA stability
α1(I) Collagen; Gene expression (Määttä, A. (1260) 294)

Insulin receptor; Gene; Posttranscriptional regulation; Polyadenylation (Levy, J.R. (1263) 253)

mRNA transcript
Deer antler; Bone morphogenetic protein 4; Noncoding exon (Feng, J.Q. (1263) 163)

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rRNA synthesis
ppGpp; Bacterium; Growth rate control; (*E. coli*) (Bremer, H. (1262) 15)

snRNA
Splicing; Spliceosome; U6; snRNP (Wolff, T. (1263) 39)

tRNA
Mitochondrion; mtDNA; Myoclonus epilepsy; Mitochondrial encephalomyopathy; Leigh's syndrome (Holme, E. (1271) 249)

tRNA identity
Chlorophyll biosynthesis; Aminolevulinic acid; Glutamate; Glutamyl tRNA synthetase; Glutamyl tRNA reductase; (Barley) (Willows, R.D. (1263) 228)

tRNA modification
pre-$tRNA^{Tyr}$; Pseudouridine 35; Wheat germ extract; Plant (Szweykowska-Kulinska, Z. (1264) 87)

RNAase 4
Pancreatic type ribonuclease family; cDNA cloning; Gene expression; (Pancreas); (Human) (Seno, M. (1261) 424)

RNAase H activity
Hairpin oligonucleotide phosphorothioate; 2′-Methoxynucleoside; Exonuclease resistance; Synthetic oligonucleotide; Hairpin structure; T_m value (Hosono, K. (1244) 339)

RNA synthesis
Taurine transporter; Adaptive response; mRNA level; Protein synthesis; Choriocarcinoma cell; (Placenta) (Jayanthi, L.D. (1235) 351)

snRNP
Splicing; Spliceosome; U6; snRNA (Wolff, T. (1263) 39)

RNP protein family
Gene cloning; (Chicken) (Cvekl, A. (1261) 290)

Rodent evolution
α-1-Antiproteinase; α-1-Antitrypsin; Molecular phylogeny; (Syrian hamster) (Nakatani, T. (1263) 245)

ROESY spectrum
Polymyxin analogue; Peptide conformation; Distance-geometry calculation; Restraint molecular dynamics simulation; NMR (Liao, S.-Y. (1252) 312)

Ron
Promoter; MSP (Del Gatto, F. (1263) 93)

Root nodule
Leghemoglobin; Hydrogen peroxide; Ferryl; Radical; EPR; Oxidative damage; Nitrogen fixation (Moreau, S. (1251) 17)

Rotational diffusion
Lens protein; γ-Crystallin; Self-association; Protein–protein interaction; Macromolecular crowding (Stevens, A. (1246) 82)

Rotational dynamics
MHC class I antigen; Luteinizing hormone receptor; Fluorescence photobleaching recovery; Time-resolved phosphorescence anisotropy (Philpott, C.J. (1235) 62)

Rotational relaxation
Dipole moment; Fluorescence-detected electric dichroism; ATPase, Na^+/K^+- (Porschke, D. (1231) 181)

***rpoB* gene**
Nucleotide sequence; RNA polymerase; (*S. aureus*) (Aboshkiwa, M. (1262) 73)

5.8S rRNA
Targeted mutagenesis; rDNA; Internal transcribed spacer (Abou Elela, S. (1262) 164)

RT-PCR
IF-2; Mitochondrion; Translational initiation; 3′-RACE PCR; (Bovine) (Ma, J. (1261) 321)

RTX toxin
Leukotoxin; Planar bilayer; Ion channel; Bacterial toxin; Single channel conductance; Multiple conductance state; Membrane pore; (*A. actinomycetemcomitans*) (Lear, J.D. (1238) 34)

RU 486
Clusterin; Apoptosis; Protein kinase C; Steroid hormone (Flach, R. (1268) 325)

[^{3}H]RX821002
α_2-Adrenoceptor subtype; Ligand binding; [^{3}H]Rauwolscine; [^{3}H] Atipamezole; Recombinant cell line (Halme, M. (1266) 207)

Ryanodine receptor
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Salicylate hydroxylation
Hydroxyl radical; Ischaemia-reperfusion; HPLC; (Isolated perfused rat kidney) (Kadkhodaee, M. (1243) 169)

Saliva
Platelet-activating factor; PAF; Mass spectrometry (Woodard, D.S. (1259) 137)

Salt wash
Calcium ion; Binding affinity; Oxygen evolution; Photosystem II membrane; (Spinach) (Han, K.-C. (1232) 230)

Salvage and de novo nucleotide synthesis
Purine nucleotide synthesis; Pyrimidine nucleotide synthesis; Zidovudine; Antiviral agent (Agarwal, R.P. (1266) 223)

Sapstain
Subtilisin; Autolysis; Autoproteolysis; (*Ophiostoma*) (Abraham, L.D. (1245) 76)

α-Sarcin
Antitumor protein; Cytotoxin; Protein unfolding; Spectroscopy; Protein–lipid interaction (Gasset, M. (1252) 43)

Sarcoplasmic reticulum
Calcium ion; ATPase, Mg^{2+}-; Sodium ion; ATPase, K^{+}-, inhibitor; Calcium ion pump (Ricote, M. (1232) 217)

Phospholipid; detergent; ATPase, Ca^{2+}- (Ding, J. (1234) 166)

ATPase, Ca^{2+}-; Membrane composition; ST-EPR; Mass spectrometry; Aging; EPR (Krainev, A.G. (1235) 406)

Ryanodine receptor; Cross-linking (Shoshan-Barmatz, V. (1237) 151)

***sat*3 gene**
Antibiotic resistance; Streptothricin; Bacterial plasmid; Incompatibility group IncQ; Nucleotide sequence (Tietze, E. (1263) 176)

Saturation transfer
Relaxation time; Dilution; Rate constant; NMR, ^{31}P-; Creatine kinase (Conrad, A. (1243) 117)

Scavenger receptor
Sialosaccharide; Macrophage recognition; Oxidized cell; LDL; Glycophorin; (Erythrocyte) (Beppu, M. (1268) 9)

SCH 28080
Membrane potential; Voltage-clamp technique; Thiocyanate; Famotidine; Omeprazole; (*R. pipiens*); (Gastric mucosa) (Carrasquer, G. (1240) 41)

Schiff base
Retinal binding protein; Water pool; Surfactant; Retinylidine; Hydrogen bonding (Singh, A.K. (1245) 167)

Scleroderma
Polyoma large T antigen; DNA relaxation; Camptothecin; Magnesium ion-dependent topoisomerase (Marton, A. (1262) 59)

Scleroderma antibody
Topoisomerase I; Phosphorylation; Camptothecin; L5178Y subline (Staron, K. (1260) 35)

Scoring matrix
Evolution; Sequence comparison; Nucleotide clustering (Stern, B. (1264) 115)

SDS electrophoresis
Cysteine protease; Ginger protease; *p*-Chloromercuribenzoate; Isoelectric focusing; TSK G2000 gel chromatography (Ohtsuki, K. (1243) 181)

Sea bream
Aldolase; Fish; (*Sparus aurata*) (Llewellyn, L. (1263) 75)

Secondary amyloidosis
Amyloid A; Serum amyloid A; Defensin (Liepnieks, J.J. (1270) 81)

Secondary ordered structure
Hemopeptide; Complexation reaction; Electron-transfer process (Santucci, R. (1250) 183)

Secondary structure
Circular dichroism; Cotton effect; Flavin microenvironment; Deletion mutant (Visser, A.J.W.G. (1229) 381)

Galanin; Neuropeptide; Circular dichroism; Solvent stabilization (Öhman, A. (1236) 259)

Alkaline phosphatase; CD; Denaturation; FTIR; Protein folding (De La Fournière, L. (1248) 186)

Anticoagulant peptide; Tertiary structure; Circular dichroism; Fourier transform infrared spectroscopy; Fluorescence; Disulfide reduction; Molten globule (Sanyal, G. (1249) 100)

HIV type 1; Capsid protein p24; Denaturant-induced unfolding (Misselwitz, R. (1250) 9)

Phospho*enol*pyruvate carboxykinase; Circular dichroism; FTIR; (*S. cerevisiae*); (*E. coli*) (Encinas, M.V. (1252) 23)

Lyophilization; FTIR; Recombinant human albumin; Moisture-induced aggregation; Protein stability (Costantino, H.R. (1253) 69)

Pulmonary surfactant; Surfactant-associated protein; Circular dichroism; Intrinsic fluorescence; Organic solvent (Cruz, A. (1255) 68)

Secondary structure prediction
Amino-acid substitution tables; Gonadotropin; Thyrotropin; Luteinizing hormone (Wako, H. (1247) 104)

Second derivative fluorescence spectroscopy
LDL; Protein crosslinkage; Three-dimensional fluorescence spectroscopy; Lipid oxidation (Singh, S. (1254) 135)

Second messenger
Arachidonic acid; Respiratory burst; Neutrophil; Phospholipase (Ely, E.W. (1258) 135)

Interleukin 1; Signal transduction; Protein kinase; MAP kinase; Transcription factor (O'Neill, L.A.J. (1266) 31)

Secretion
Chromaffin; Synexin; Protein synthesis; Cycloheximide; Actinomycin D (Cardenas, A.M. (1234) 255)

Membrane pore; Membrane protein transport; Permeability coefficient; X-ray microscopy (Goncz, K.K. (1238) 91)

Retinol; Protein synthesis; Retinal pigment epithelium; Transthyretin; Retinol binding protein (Jaworowski, A. (1245) 121)

Cholesteryl sulfate; Blood platelet; Aggregation; Thromboxane; Sterol (Blache, D. (1259) 291)

Secretory component secEp
Ribosomal gene cluster; Transcription unit; SRP-receptor; (*S. acidocaldarius*) (Moll, R. (1261) 315)

secY gene
Crenarchaeota; Protein translocation; Transcription unit; (*S. acidocaldarius*) (Kath, T. (1264) 155)

Selective toxicity
Sterically stabilized liposome; Poly(ethylene glycol); Liposome targeting; Doxorubicin; Immunoliposome; Toxicity (Allen, T.M. (1237) 99)

Selective uptake
LDL; HDL; Cholesteryl ester; Fibroblast; HepG2 cell; J774 macrophage (Rinninger, F. (1255) 141)

Selectivity
CDP-diacylglycerol; Phosphatidylinositol; Phosphatidylinositol-synthase; Solubilization; (Maize) (Justin, A.-M. (1255) 161)

Selenium
Thioether; Methyltransferase; *S*-Adenosylmethionine; cDNA cloning; Sulfur; (Mouse lung) (Warner, D.R. (1246) 160)

Glutathione; Glutathione peroxidase; *t*-Butyl hydroperoxide; Leukemia cell (Korytowski, W. (1267) 31)

Self-association
Amphotericin; Molecular mechanics calculation (Caillet, J. (1240) 179)

Methemoglobin; Organic phosphate; Preferential binding (Jacobsen, M.P. (1246) 17)

Lens protein; γ-Crystallin; Rotational diffusion; Protein–protein interaction; Macromolecular crowding (Stevens, A. (1246) 82)

pH; Denaturation; Intermediate; Protein folding; Growth hormone; (Human) (DeFelippis, M.R. (1247) 35)

Seminal plasma
NMR spectroscopy; Inositol; Glycerophosphorylcholine; Reproduction (Kamp, G. (1243) 101)

Seminalplasmin gene
Transcriptional initiation site; Primer extension analysis; Consensus sequence; Promoter activity; (Bovine) (Herbers, J. (1263) 271)

Semiquinone
D-Lactate dehydrogenase; Electron paramagnetic resonance; Stopped-flow kinetics; (*E. coli*) (Sun, Z.-Y. (1252) 269)

Senescence
Red blood cell; Calcium; Cobalt; Hydrogen peroxide; Cell membrane; NMR (Aiken, N.R. (1270) 52)

Senescence marker protein-30 (SMP30)
Aging; Calcium binding protein; cDNA; X chromosome; (Human); (Liver) (Fujita, T. (1263) 249)

Sepiapterin reductase
cDNA; Tetrahydrobiopterin; Cloning; (Mouse) (Ota, A. (1260) 320)

Sequence alignment
Acyl carrier protein gene, seed-expressed; (*B. campestris*) (Das, N. (1258) 75)

Lipase; Calcium binding; Stability; (*Pseudomonas* species) (Svendsen, A. (1259) 9)

Signal (leader) peptidase type I; *sip* gene; PCR cloning; Nucleotide sequence; *fruA* gene; (*Bacillus*) (Hoang, V. (1269) 64)

Sequence analysis
cDNA; Mitochondrion; Steroidogenic acute regulatory protein; (Human) (Gradi, A. (1258) 228)

Thyroid transcription factor 1; Gene cloning; Sequence comparison; (Human) (Saiardi, A. (1261) 307)

Protein kinase, cyclic AMP-dependent; Catalytic subunit; Malaria; Parasitic protozoa; (*P. yoelii*) (Saito-Ito, A. (1269) 1)

Sequence comparison
cDNA; C4b-binding protein; (Rabbit) (García de Frutos, P. (1261) 285)

Thyroid-specific enhancer-binding protein (T/EBP); cDNA cloning; Gene cloning; Gene structure (Oguchi, H. (1261) 304)

Thyroid transcription factor 1; Gene cloning; Sequence analysis; (Human) (Saiardi, A. (1261) 307)

Sulfite oxidase; cDNA cloning; (Human liver) (Garrett, R.M. (1262) 147)

Streptavidin; Biotin-binding protein; (*Streptomyces*) (Bayer, E.A. (1263) 60)

Ribosomal protein S20; DNA sequence; Protein sequence (Nemec, A. (1263) 154)

Pleiotropic phenotype; Gene family characterization; Gene mutation; (*S. cerevisiae*) (Revardel, E. (1263) 261)

Evolution; Scoring matrix; Nucleotide clustering (Stern, B. (1264) 115)

Sequence homology
Mitochondrion; ATP synthase, H^+-; Inhibitor protein; (Potato) (Polgreen, K.E. (1229) 175)

Sequence preference
Kinetic analysis; Topoisomerase I; Mitochondrion (Topcu, Z. (1264) 377)

Sequencing
Hemolysin III; Cloning; (*B. cereus*) (Baida, G.E. (1264) 151)

Serine hydrolase
Catalytic triad; Haloperoxidase, non-heme; Esterase; Dehalogenase; Site-directed mutagenesis; (*S. aureofaciens*); (*P. fluorescens*); (*P. pyrrocinia*) (Pelletier, I. (1250) 149)

Acylation; Deacylation; Solvent; Transesterification; Esterification (Martinelle, M. (1251) 191)

Serine phosphorylation
c-mos; Proto-oncogene; Spermatogenesis; Translation; Cell culture (Nagao, Y. (1245) 130)

Serine proteinase
Tryptase; BPTI; Mast cell; Localization (Fiorucci, L. (1243) 407)

C1s; Recombinant; BCMGsNeo; Anti-peptide antibody; (Human); (Hamster) (Toyoguchi, T. (1250) 90)

NMR; Boronic acid; NMR, ^{19}F-; Nuclear Overhauser effect; Protein dynamics (Sylvia, L.A. (1252) 225)

Bacterial proteinase; Proteinase; Purification and characterization; (*B. subtilis*) (Yamagata, A. (1253) 224)

Serine proteinase inhibitor
Proteinase inhibitor 6; Placental thrombin inhibitor; Serpin; Gene expression; Thrombin inhibitor; (*P. pastoris*) (Sun, J. (1252) 28)

Serine-rich transmembrane protein
SMS1; *HTR1*; (*S. cerevisiae*) (Takeuchi, J. (1260) 94)

Serpin
Coagulation; Thrombin; Activated protein C (Cooper, S.T. (1246) 29)

Proteinase inhibitor 6; Placental thrombin inhibitor; Serine proteinase inhibitor; Gene expression; Thrombin inhibitor; (*P. pastoris*) (Sun, J. (1252) 28)

Tumor-infiltrating lymphocyte; Immunotherapy; Immunosurveillance; Cancer; (Human) (Packard, B.Z. (1269) 41)

Serum
Antihemorrhagin; Venom; Neutralization (Borkow, G. (1245) 232)

PDGF-A; Gene regulation; 12-*O*-Tetradecanoylphorbol-13-acetate; Cycloheximide (Takimoto, Y. (1260) 176)

Lipid peroxidation; Copper-induced oxidation; Photosensitive oxidation; LDL; Cholesterol; (Human); (Rat); (Guinea-pig) (Mosinger, B.J. (1270) 73)

Serum albumin
β-Lactoglobulin; Palmitic acid; Retinol; Caco-2 cell line; (Bovine) (Puyol, P. (1236) 149)

Binding affinity; Lithocholate; Binding site; Equilibrium dialysis; (Human) (Takikawa, H. (1244) 277)

Aging; HPLC; Mercaptalbumin; Nonmercaptalbumin; Redox state; (Human) (Era, S. (1247) 12)

Serum amyloid A
Amyloid A; Secondary amyloidosis; Defensin (Liepnieks, J.J. (1270) 81)

Serum esterase
Esterase characterization; Pivaloylated sugar substrate; (Rabbit) (Tomić, S. (1251) 11)

Serum-free medium
Atherosclerosis; Apolipoprotein H; Survival factor; Endothelial cell (Cai, G. (1269) 13)

Serum, human
Bile acid; Lipoprotein; Binding protein; Immunoprecipitation; Photoaffinity labeling (Kramer, W. (1257) 230)

Serum–liposome interaction
N-Acylphosphatidylethanolamine; Liposome stability; Membrane fluidity; Ganglioside; Serum protein (Mercadal, M. (1235) 281)

Serum protein
N-Acylphosphatidylethanolamine; Liposome stability; Membrane fluidity; Ganglioside; Serum–liposome interaction (Mercadal, M. (1235) 281)

Seven-transmembrane domain receptor
G protein-coupled receptor; Transmembrane domain; Gene cloning; (*Oryzias latipes*) (Yasuoka, A. (1235) 467)

Seven-transmembrane motif
Polymerase chain reaction; Orphan receptor; (Rat); (Human) (Hata, S. (1261) 121)

Sex difference
Fatty acid; Oleic acid; Age; Adipose tissue; (Rat) (Thorling, E.B. (1258) 195)

Sf9 cell
Histidine decarboxylase; Mastocytoma; Pancreatic elastase; (Mouse); (Porcine) (Tanaka, S. (1253) 9)

β_1-Adrenergic receptor; GM1 ganglioside; Modulation of β-adrenergic receptor by GM1; cyclic AMP formation; Baculovirus (Saito, M. (1267) 1)

shaggy
Glycogen synthase kinase-3; Pollen development; Pollen embryogenesis; Protein kinase; (*N. tabacum*) (Einzenberger, E. (1260) 315)

Shape
Electropermeabilization; Erythrocyte membrane; Size distribution; Electrohemolysis; Hemolysis; (Human) (Turcu, I. (1238) 81)

Shear plane
Dipalmitoylphosphatidylcholine; Calcium ion; Binding constant; Electrophoresis; Liposome (Satoh, K. (1239) 239)

Shear stress
Liposome; Fluid force; Calcium ion permeability; Fluorescence; Ion transport (Giorgio, T.D. (1239) 39)

Flavocetin-A and -B; Glycoprotein Ib; Platelet aggregation; Von Willebrand factor; (Snake venom) (Taniuchi, Y. (1244) 331)

Sheep
Lactoferrin; Platelet aggregation; Milk (Qian, Z.-Y. (1243) 25)

Shikonin derivative
Phosphoinositide breakdown; Platelet; (*A. euchroma*) (Ko, F.-N. (1268) 329)

Short-chain carboxylic acid transport
Acetate; Pyruvate; Lactate; Propionate; Formate; (*T. delbrueckii*); (Yeast) (Casal, M. (1267) 122)

Short-chain ceramide
Short-chain dihydroceramide; Sphingomyelin synthesis; CHO cell (Ridgway, N.D. (1256) 57)

Short-chain dihydroceramide
Short-chain ceramide; Sphingomyelin synthesis; CHO cell (Ridgway, N.D. (1256) 57)

Short chain fatty acid
Fermentable carbohydrate; Cholestyramine; Cholesterol; Triacylglycerol lipoprotein; Bile acid; (Rat) (Favier, M.-L. (1258) 115)

Short-circuit current
cyclic AMP; pH, intracellular; pH-sensitive microelectrode; Potential-induced change in pH_i; (Frog skin epithelium) (Lyall, V. (1240) 65)

Short-term cell death
Electropermeabilization; Cell survival; Long-term cell death; Chinese hamster ovary cell (Gabriel, B. (1266) 171)

SH-reagent
Eosin-5-maleimide; *N*-Ethylmaleimide; Protein labeling; HPLC (Majima, E. (1243) 336)

Sialic acid
Influenza virus; Membrane fusion; Membrane binding; CEM cell; Neuraminidase; Fluorescence (Pedroso de Lima, M.C. (1236) 323)

Sialyltransferase; *N*-Glycolylneuraminic acid (Hamamoto, T. (1244) 223)

Oviduct; Sperm; Glycoprotein; Lectin; Oligosaccharide (Satoh, T. (1266) 117)

Sialosaccharide
Scavenger receptor; Macrophage recognition; Oxidized cell; LDL; Glycophorin; (Erythrocyte) (Beppu, M. (1268) 9)

Sialyl-Lewis^x
Lens; Ganglioside; Cataract, human senile (Ogiso, M. (1256) 166)

Sialyltransferase
cDNA cloning; (Chick embryo) (Kurosawa, N. (1244) 216)

N-Glycolylneuraminic acid; Sialic acid (Hamamoto, T. (1244) 223)

Signaling
Nitric oxide; Nitric oxide derivative; Sulfite toxicity; Platelet aggregation; Respiratory disease (Harvey, S.B. (1267) 41)

Signal (leader) peptidase type I
sip gene; PCR cloning; Nucleotide sequence; Sequence alignment; *fruA* gene; (*Bacillus*) (Hoang, V. (1269) 64)

Signal peptide
cDNA library; Northern analysis; Nucleotide sequence; Polymerase chain reaction (Ma, D.-P. (1257) 81)

Acid sphingomyelinase; Repeat polymorphism (Wan, Q. (1270) 207)

Signal processing
Membrane; Fluidity; Megakaryoblast; (Human) (Schootemeijer, A. (1236) 128)

Signal recognition
Srp; GTPase; Mutant (Samuelsson, T. (1267) 83)

Signal transduction
Protein kinase C; T lymphocyte (Szamel, M. (1235) 33)

Diacylglycerol metabolism; (Bovine aorta) (Lee, M.W. (1254) 311)

Calcium; Cholesterol; Dietary fatty acid; Platelet; (Rat) (Heemskerk, J.W.M. (1255) 87)

Myoblast; Vitamin D-3, $1,25(OH)_2$; Phospholipase A_2; Arachidonic acid; GTP-binding protein (De Boland, A.R. (1257) 274)

Phospholipase D; Characterization; Purification; (Human placenta) (Vinggaard, A.M. (1258) 169)

PAF; PAF receptor; Gene (Izumi, T. (1259) 317)

G-box binding complex; 14-3-3 protein; (*Chlamydomonas*) (Liebich, I. (1263) 79)

Interleukin 2; Promoter; T cell activation; Transcription factor (Serfling, E. (1263) 181)

Prostaglandin; G protein (Schwaner, I. (1265) 8)

Extracellular signal-regulated kinase (erk); Okadaic acid; Tetradecanoylphorbol acetate; Heat shock; HeLa cell (Heider, H. (1265) 196)

Interleukin 1; Second messenger; Protein kinase; MAP kinase; Transcription factor (O'Neill, L.A.J. (1266) 31)

Fibroblast growth factor; Myoblast; Immediate early gene; Gene expression; MAP kinase (Lim, R.W. (1266) 91)

Myoblast; 1,25-Dihydroxyvitamin D_3; Calcium ion uptake; cyclic AMP; G-protein (Vazquez, G. (1269) 91)

Signal transmission
Bivascular liver perfusion; Glucagon; Glycogenolysis; Glycolysis; Oxygen uptake; (Rat liver) (Constantin, J. (1244) 169)

Silica
Surfactant; Inflammation; Lavage; Activation (Viviano, C.J. (1259) 235)

Silicon membrane
Fibroblast; Impedance; Cell motility; Pore (Hagedorn, R. (1269) 221)

Similaun man
Mummification; Raman spectroscopy; Electron microscopy; Human skin (Williams, A.C. (1246) 98)

Simvastatin
Lovastatin; Pravastatin; Sterol synthesis; HMG-CoA reductase inhibitor; Transport; (Human cell) (Van Vliet, A.K. (1254) 105)

Single base deletion
Holocarboxylase synthetase deficiency; Molecular analysis; Missense mutation; Biotin metabolism; (Human) (Aoki, Y. (1272) 168)

Single-channel conductance
Leukotoxin; Planar bilayer; Ion channel; Bacterial toxin; Multiple conductance state; Membrane pore; RTX toxin; (*A. actinomycetemcomitans*) (Lear, J.D. (1238) 34)

Single-channel current
Acetylcholine receptor; Fluorescence anisotropy; Cholesterol enrichment (Lasalde, J.A. (1235) 361)

Single file
Water pore; Osmotic permeability; Molecular dynamics simulation; Kinetic model (Kalko, S.G. (1240) 159)

Single-step transfer
Stochastic computer simulation; Excitation energy transfer; Phycobilisome; Computer simulation; (Blue-green alga) (Zhao, J. (1229) 39)

Single-stranded DNA
DNA renaturation; Histone (Fernandez-Busquets, X. (1260) 132)

Single-stranded DNA binding protein
Gene 5 protein; Filamentous bacteriophage; Tyrosine fluorescence; Site-directed mutagenesis (Turner, G.P. (1260) 79)

Bacterial gene; Mitochondrial gene (Rikke, B.A. (1261) 143)

Single-stranded DNA phage
Origin mutant; Deletion/insertion; Complementary strand; DNA sequence (Kodaira, K.-I. (1260) 191)

Single-stranded DNA plasmid
Origin mutant; Deletion; Complementary strand; DNA sequence (Kodaira, K.-I. (1260) 183)

Singlet oxygen
Squalene; Free radical; Lipid peroxidation (Kohno, Y. (1256) 52)

Oxidative DNA damage; Photosensitizer; Mutagenesis; 8-Hydroxyguanine (Buchko, G.W. (1263) 17)

***sip* gene**
Signal (leader) peptidase type I; PCR cloning; Nucleotide sequence; Sequence alignment; *fruA* gene; (*Bacillus*) (Hoang, V. (1269) 64)

Sis1
cDNA; DnaJ; Heat shock; (*S. pombe*) (Park, S.-K. (1262) 87)

Site-directed mutagenesis
Electron transfer; Flash photolysis; NMR; Photosynthesis; Photosystem I (Sigfridsson, K. (1228) 28)

Succinate:menaquinone oxidoreductase; Trinuclear iron-sulfur cluster; Iron-sulfur cluster; EPR; (*B. subtilis*) (Hägerhäll, C. (1229) 356)

ATPase, H^+-; Suppressor mutation; Coupling; Yeast; (*S. cerevisiae*) (Anand, S. (1234) 127)

Pyridoxal 5′-phosphate; ^{31}P-NMR spectroscopy phosphorylase (Becker, S. (1243) 381)

Aldose reductase; Inhibition; Kinetics; Polyol pathway; Diabetes; Rat lens (Carper, D.A. (1246) 67)

Cyclomaltodextrin glucanotransferase; Histidine mutation; Enzyme kinetics; (*B. circulans* var. *alkalophilus*) (Mattsson, P. (1247) 97)

HMG-CoA synthase; Protein chemistry; Ketogenesis; Cholesterogenesis (Misra, I. (1247) 253)

Glycosylation; 11β-Hydroxysteroid dehydrogenase; Alcohol dehydrogenase, short chain (Agarwal, A.K. (1248) 70)

Rhodanese; Disulfide; Protein folding; Denaturation (Horowitz, P.M. (1249) 161)

Catalytic triad; Haloperoxidase, non-heme; Esterase; Serine hydrolase; Dehalogenase; (*S. aureofaciens*); (*P. fluorescens*); (*P. pyrrocinia*) (Pelletier, I. (1250) 149)

Monoalide; Mixed micelle; Lipid–protein interaction; Phospholipid inhibition; (*N. naja naja*) (Bianco, I.D. (1250) 197)

E211Q enolase; Enolase mechanism; Charge shuttle; Yeast (Sangadala, V.S. (1251) 23)

Azurin; Disulfide bond; Electron paramagnetic resonance; Fluorescence; Circular dichroism; (*P. aeruginosa*) (Bonander, N. (1251) 48)

Gene 5 protein; Filamentous bacteriophage; Single-stranded DNA binding protein; Tyrosine fluorescence (Turner, G.P. (1260) 79)

Site-directed mutation
Rhodanese; Domain; Tether; Protein folding (Luo, G.-X. (1252) 165)

Site occupancy
Oligosaccharide; Ribonuclease; Tissue plasminogen activator; Plasminogen (Rudd, P.M. (1248) 1)

Site-specific mutagenesis
Protein function; Stabilization; Subtilisin; Molecular interaction; Protein engineering; Cytochrome *c*; Metal-mediated cross-linking (Ó Fágáin, C. (1252) 1)

SIV/HIV fusion peptide
Lysophosphatidylcholine; Lipid mixing (Martin, I. (1240) 95)

Size distribution
Electropermeabilization; Erythrocyte membrane; Shape; Electrohemolysis; Hemolysis; (Human) (Turcu, I. (1238) 81)

Erythrocyte; Centrifugation; Electric conductance (Pribush, A. (1256) 187)

Skeletal muscle
β-Guanidinopropionic acid; Muscle contraction; Mitochondrion; Mitochondrial biogenesis; Oxidative phosphorylation (Freyssenet, D. (1228) 211)

ATPase, Ca^{2+},Mg^{2+}-; ATPase, Mg^{2+}-; t-Tubule; DSC (Ortega, A. (1233) 7)

Monocarboxylate; Transporter; MCT1; (Rat) (Jackson, V.N. (1238) 193)

Connectin; Nebulin; Muscle development; Protein isoform; (Chicken) (Hattori, A. (1244) 179)

Glycogen synthase; Insulin; Glucose 6-phosphate; Allosteric activation (Villar-Palasi, C. (1244) 203)

Protein, 550 kDa; Muscle development; (Chick embryo) (Hattori, A. (1245) 191)

Protein-tyrosine phosphatases; Insulin receptor; Tyrosine phosphorylation; Tyrosine kinase (Ahmad, F. (1248) 57)

Actin; Contractile activity; Enzyme binding; Glycolysis; Hexokinase; Low-frequency stimulation; Mitochondrion; Phosphofructokinase (Parra, J. (1251) 154)

Amylin; cyclic AMP; Glycogenolysis (Pittner, R. (1267) 75)

Skeletal muscle mitochondrion
Mitochondrial myopathy; Forebrain mitochondria; Respiratory chain; Oxidative phosphorylation; Ischemia; Reperfusion (Lee, C.P. (1271) 21)

Skeletal tissue
Mitochondrial function; NMR; NIR spectroscopy (Chance, B. (1271) 7)

Skin
Liposome; Penetration; Confocal laser scanning microscopy; Calorimetry (Zellmer, S. (1237) 176)

Tyrosinase; (*G. lanigera*) (Wang, H.-t. (1243) 251)

Skinned muscle fiber
NAD(P)H fluorescence; Flavoprotein fluorescence; Mitochondrial myopathy; Encephalomyopathy; (Human) (Winkler, K. (1272) 181)

S layer
Liposome; Surface layer, crystalline; Cell surface protein; Immobilization; (*B. coagulans*) (Küpcü, S. (1235) 263)

Slow, tight-binding inhibitor
Glucosidase; Glycosidase; Trehalase; Trehazolin (Ando, O. (1244) 295)

Small angle X-ray diffraction
DSC; Drug–membrane interaction; Cannabinoid; (−)-*O*-Methyl-Δ^8-tetrahydrocannabinol; 5′-Iodo-*O*-methyl-Δ^8-tetrahydrocannabinol (Mavromoustakos, T. (1237) 183)

Small intestine
Brush-border membrane; Ceftibuten; Membrane transport; Oligopeptide; Renal proximal tubule (Naasani, I. (1231) 163)

Dipeptide; Membrane transport; Stereospecificity; (Rat) (Sykes, A.P. (1237) 70)

Swine; Biological transport; Physiology; Amino acid; Glucose; Chloride (Munck, L.K. (1238) 49)

Ornithine transcarbamylase; Orotic acid; Transgene; Liver; (spf-ash Mouse, sparse-fur with abnormal skin and hair) (Saheki, T. (1270) 87)

Small unilamellar vesicle
Fluorinated vesicle; Phospholipid; (Perfluoroalkyl)alkane; Phospholipase A_2; Membrane packing; (Porcine pancreas) (Privitera, N. (1254) 1)

Smooth muscle
Cerebral artery; Cation permeable channel; Patch clamp (Mathers, D.A. (1236) 89)

Smooth muscle cell
Elastin; Cell passage; Tropoelastin-degrading activity (Wachi, H. (1243) 393)

Atherosclerosis; Reverse cholesterol transport; Cholesterol efflux; Cholesterol uptake; Macrophage; HepG2 cell (Stein, O. (1257) 174)

Cholesterol efflux; Macrophage; Erythrocyte; HDL; Apolipoprotein A-I (Li, Q. (1259) 227)

Atherosclerosis; Basic fibroblast growth factor; Fibroblast growth factor receptor (Van Neck, J.W. (1261) 210)

Arachidonic acid; $cPLA_2$; Oxidant; Phosphorylation (Rao, G.N. (1265) 67)

Protein kinase C; Hydrogen peroxide; DNA synthesis (Fiorani, M. (1269) 98)

SMS1
HTR1; Serine-rich transmembrane protein; (*S. cerevisiae*) (Takeuchi, J. (1260) 94)

Snake venom
Metalloprotease; α-Fibrin(ogen)ase; Low molecular weight protease; Non-hemorrhagic protease; (*Agkistrodon halys brevicaudus*) (Fujimura, S. (1243) 94)

Platelet activator, thrombin-like; Purification; Mechanism of action (Marrakchi, N. (1244) 147)

Hemorrhagic principle; (*B. arietans*) (Omori-Satoh, T. (1246) 61)

Hemorrhagic metalloproteinase; Substrate specificity; (*B. arietans*) (Yamakawa, Y. (1247) 17)

Phospholipase A_2; Partition coefficient; Hydrolysis kinetics (Bent, E.D. (1254) 349)

Phospholipase A_2; Myotoxin; L-6 cell; Cytotoxicity; Calcium influx (Incerpi, S. (1268) 137)

Snake venom proteinase
Thrombin like enzyme; Platelet thrombin receptor GpIb; α-Fibrinogenase (Basheer, A.R. (1250) 97)

SNARF
pH, intracellular; NMR, ^{31}P; Microspectrofluorimetry; (*C. albicans*) (Rabaste, F. (1268) 41)

***S*-Nitrosylation**
Nitric oxide; Advanced glycosylation end product (AGE); Glutathione; Lymphocyte proliferation; cGMP; Glucose transport; (Human) (Farkas, J. (1245) 305)

Sodium
Spontaneous hypertension; ATPase, Na^+/K^+-, isolated; Ouabain; Mercury; (Hypertensive rat); (Brain); (Kidney) (Anner, B.M. (1270) 95)

Sodium ATPase
Sodium pump; ATPase, Na^+-; (*Saccharomyces cerevisiae*); (*Schizosaccharomyces pombe*) (Bañuelos, M.A. (1229) 233)

Sodium–calcium ion exchange
EGTA; Ionophore A23187; Submembrane calcium ion; Temperature; Giant patch; Cardiac membrane (Kabakov, A.Y. (1240) 142)

Sodium dodecyl sulfate
Creatine kinase; Inactivation; Conformation (Wang, Z.-F. (1251) 109)

Emulsion; Water soluble; *p*-Nitrophenyl ester; Adsorption (Martinelle, M. (1258) 272)

Sodium-hydrogen antiporter
Carrier protein; Promoter; ($LLC\text{-}PK_1$ cell) (Blaurock, M.C. (1262) 159)

Sodium ion
Calcium ion; ATPase, Mg^{2+}-; ATPase, K^+-, inhibitor; Calcium ion pump; Sarcoplasmic reticulum (Ricote, M. (1232) 217)

Magnesium ion; Antiport; Amiloride; Protein kinase C; (Rat erythrocyte) (Günther, T. (1234) 105)

ATPase, Na^+/K^+-; Sodium/potassium pump; Ouabain; Solubilization; Octaethylene glycol *n*-dodecyl ether (Asami, M. (1240) 55)

Glucose; Ouabain; Pancreatic β-cell; Beta-cell (Saha, S. (1265) 209)

Sodium ion conductance
Amiloride; Benzamil; Phenamil; EIPA; (*Xenopus* oocyte) (Weber, W.-M. (1239) 201)

Sodium ion dependence
Glutamate transport; Kinetics; Harmaline; Red blood cell; (HK dog) (Fujise, H. (1239) 22)

Sodium ion/hydrogen ion antiport
Apoptosis; pH, intracellular; HL-60 cell; Phorbol 12-myristate 13-acetate; Dimethyl amiloride (Zhu, W.-H. (1269) 122)

Sodium ion-independent alkalinization
pH_i; pH, cytosolic; Enterocyte; Alkalinization (Peral, M.J. (1233) 84)

Sodium ion, intracellular
Intracellular sodium ion; NMR; Ion flux; Cell culture; Mitogenic signal; (3T3 fibroplast) (Berman, E. (1239) 177)

Sodium ion/phosphate cotransporter
Phosphate transport; pH effect; Substrate effect; Allosteric regulatory site; Divalent phosphate, intervesicular; Brush-border membrane; (Intestine) (Peerce, B.E. (1239) 1)

Phosphate transport; Inhibition; Sulfhydryl specific reagent; Molecular mechanism; Brush-border membrane; (Intestine) (Peerce, B.E. (1239) 11)

Sodium ion/proton antiporter
nhaA gene; Aspartic acid residue; Marine bacterium; (*V. alginolyticus*) (Nakamura, T. (1230) 170)

Sodium ion–proton exchange
BBMV; Kinetics (Ferrero, M.I. (1235) 313)

Lactate/proton co-transport; Bicarbonate/chloride exchange (Juel, C. (1265) 127)

Sodium ion–proton exchanger
Oleic acid; Brush-border membrane; (Jejunum); (Rat); (Rabbit) (Schoeller, C. (1236) 51)

Acid stress; Isoform; NHE-1; NHE-2; (mIMCD-3 cell) (Singh, G. (1239) 74)

Sodium ion transport
A6 cell; Aldosterone; Chloride permeability (Devuyst, O. (1235) 443)

Cation channel; Inner medullary collecting duct; Reverse transcriptase–polymerase chain reaction; PCR; (Mouse kidney) (Karlson, K.H. (1236) 197)

Sodium/lithium ion countertransport
Erythrocyte membrane; *N*-Ethylmaleimide; Iodoacetamide; Sulfydryl group; Thiol group; Transport kinetics (Thomas, T.H. (1235) 317)

Sodium nitroprusside
Dibutyryl guanosine 3′,5′-cyclic monophosphate; Pepsinogen secretion; Calcium ion, intracellular; Monolayer culture (Okayama, N. (1268) 185)

Sodium/potassium ion pump
ATPase, Na^+/K^+-; Sodium–sodium ion exchange (Blostein, R. (1234) 1)

Sodium/potassium pump
ATPase, Na^+/K^+-; Sodium ion; Ouabain; Solubilization; Octaethylene glycol *n*-dodecyl ether (Asami, M. (1240) 55)

Sodium pump
Sodium ATPase; ATPase, Na^+-; (*Saccharomyces cerevisiae*); (*Schizosaccharomyces pombe*) (Bañuelos, M.A. (1229) 233)

Sodium–sodium ion exchange
ATPase, Na^+/K^+-; Sodium/potassium ion pump (Blostein, R. (1234) 1)

Electrogenic transport; ATPase, Na^+/K^+-; Reconstitution; Uncoupled sodium ion efflux; Hydrophobic ion; Dephosphorylation; Membrane potential (Cornelius, F. (1235) 183)

Solid state ^{2}H-NMR
DSC; NMR, solid state ^{2}H-; Drug–membrane interaction; Steroid; Alphaxalone; Δ^{16}-Alphaxalone (Mavromoustakos, T. (1239) 257)

Solubilization
ATPase, Na^+/K^+-; Sodium/potassium pump; Sodium ion; Ouabain; Octaethylene glycol *n*-dodecyl ether (Asami, M. (1240) 55)

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CDP-diacylglycerol; Phosphatidylinositol; Phosphatidylinositol-synthase; Selectivity; (Maize) (Justin, A.-M. (1255) 161)

Soluble fiber
Dietary cholesterol; Hepatic cholesterol synthesis; LDL production; LDL receptor (Turley, S.D. (1255) 177)

Solution conformation
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Solvent
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Solvent effect
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Solvent stabilization
Galanin; Neuropeptide; Circular dichroism; Secondary structure (Öhman, A. (1236) 259)

Soman
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Butyrylcholinesterase; Reversed micelle; Hydrostatic pressure (Clery, C. (1253) 85)

Somatic cell hybrid
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Somatostatin
Elastase; Proteinase; (Rat); (Pancreas) (Szilagyi, C.M. (1251) 55)

Somatostatin receptor
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Sorcin
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Species specificity
Pravastatin; Hydroxymethylglutaryl-CoA reductase; Hydroxymethylglutaryl-CoA reductase inhibitor; Cholesterol metabolism; Triton WR-1339 (Fujioka, T. (1254) 7)

Specific deuteration
Miscibility; Phospholipid bilayer; Phosphatidylcholine; Phosphatidylethanolamine; Acidic phospholipid; NMR, ^{2}H-; NMR, ^{31}P- (Shin, K.-h. (1238) 42)

Specificity
Papain; Substrate binding; Inhibitor binding; Cooperativity (Liu, S. (1250) 43)

Spectroscopy
Antitumor protein; Cytotoxin; Protein unfolding; Protein–lipid interaction; α-Sarcin (Gasset, M. (1252) 43)

Spectrozyme PL
Plasminogen; Urokinase; Tissue plasminogen activator; Plasmin substrate S-2251 (Kolev, K. (1247) 239)

Sperm
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Sperm-specific nuclear basic protein; Protamine; (*Xenopus*) (Mita, K. (1245) 430)

Spermatozoa motility inhibiting factor
Protein purification; Cross-reactive protein (Mohan, J. (1245) 407)

Spermine
Liposome; Polyamine; Phosphatidylcholine; Multilamellar liposome; EPR (Momo, F. (1240) 89)

Sperm maturation
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Sperm-specific nuclear basic protein
Spermatogenesis; Protamine; (*Xenopus*) (Mita, K. (1245) 430)

Sphingoid base
Sphingomyelin; Mass spectrometry; Ceramide; Fatty acid (Katsikas, H. (1258) 95)

Sphingomyelin
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Sterol side chain; Cholesterol; Phosphatidylcholine; Monolayer membrane; Sterol–phospholipid interaction; Lipid domain (Mattjus, P. (1240) 237)

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Enzyme characterization; Sphingomyelin analog; Neutral pH-optimum sphingomyelinase; Structure–activity relationship; Mammal (Lister, M.D. (1256) 25)

Mass spectrometry; Sphingoid base; Ceramide; Fatty acid (Katsikas, H. (1258) 95)

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Sphingomyelin analog
Enzyme characterization; Sphingomyelin; Neutral pH-optimum sphingomyelinase; Structure–activity relationship; Mammal (Lister, M.D. (1256) 25)

Sphingomyelinase
Sphingomyelin; Sphingomyelin degradation; Non-lysosomal pathway; Niemann-Pick disease (Levade, T. (1258) 277)

Alkaline; Intestine; Bile salt (Duan, R.-D. (1259) 49)

Multidrug resistance; Chemosensitizer (Jaffrézou, J.-P. (1266) 1)

Sphingomyelin degradation
Sphingomyelin; Sphingomyelinase; Non-lysosomal pathway; Niemann-Pick disease (Levade, T. (1258) 277)

Sphingomyelin synthesis
Short-chain ceramide; Short-chain dihydroceramide; CHO cell (Ridgway, N.D. (1256) 57)

Sphingosine
DSC; Stearylamine; Phosphatidylserine; FTIR; Calcium ion binding (López-García, F. (1236) 279)

Spinach
Fluorescence; Pheophytin; Photosynthesis; Reaction center II (Mimuro, M. (1232) 81)

Spinal cord
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Spin density distribution
Molecular orbital; Tyrosine; Geometry; EPR; ENDOR (O'Malley, P.J. (1232) 175)

Spin label
EPR; Membrane; Molecular dynamics; Protein body; Transformation; Vacuole (Strzałka, K. (1239) 103)

Local anesthetic; Partition coefficient; Membrane; Steric property; Lipid bilayer; EPR; Fluorescence (De Paula, E. (1240) 25)

Spin labeling
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Photosystem II; Tyrosine; Calcium-depleted Photosystem II; EPR, pulsed (Kodera, Y. (1232) 43)

Spin state, quantum mechanically admixed
EPR; Cytochrome *c'*; Photosynthetic bacterium (Fujii, S. (1251) 161)

Spin trapping
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Peroxynitrite; Hydroxyl radical; Superoxide; Nitric oxide (Pou, S. (1244) 62)

EPR; Nitric oxide; Lipopolysaccharide; Dithiocarbamate; (Mice) (Komarov, A.M. (1272) 29)

Spiralin
Alpha helix; Amphipathic helix; Antigenicity; Membrane protein; Pore-forming activity; Topology (Brenner, C. (1235) 161)

Structure determination; Amphipathic helix; Alpha helix; NMR; Distance geometry; Annealing (Bondon, A. (1235) 169)

Splice donor site
Hepatocyte nuclear factor 4; Isoform; Differential splicing; (Mouse liver) (Hata, S. (1260) 55)

Spliceosome
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Splicing
Spliceosome; U6; snRNA; snRNP (Wolff, T. (1263) 39)

Protein-tyrosine-kinase; $p56^{kk}$; T-lymphocyte (Vogel, L.B. (1264) 168)

Splicing mutation
Erythropoietic protoporphyria; Ferrochelatase gene; Exon skipping (Wang, X. (1271) 358)

Sponge
Polyphosphate; Exopolyphosphatase; Adenylate kinase; Protein purification; (*Tethya lyncurium*) (Lorenz, B. (1245) 17)

Spongiform encephalopathy
Prion disease; PrP sequence (Martin, T. (1270) 211)

Spontaneous curvature
Lipid bilayer; Headgroup composition; Acyl chain composition; Non-lamellar phase; (*A. laidlawii*) (Österberg, F. (1257) 18)

Spontaneous hypertension
ATPase, Na^+/K^+-, isolated; Sodium; Ouabain; Mercury; (Hypertensive rat); (Brain); (Kidney) (Anner, B.M. (1270) 95)

Sporulation
Superoxide dismutase; Starvation; Differentiation; (*F. oxysporum*) (Kono, Y. (1268) 35)

Spruce budworm
Baculovirus; Nuclear polyhedrosis virus; CfMNPV; Cathepsin (Hill, J.E. (1264) 275)

Squalene
Singlet oxygen; Free radical; Lipid peroxidation (Kohno, Y. (1256) 52)

Squalene epoxidase
Cholesterol biosynthesis; cDNA cloning; FAD-binding motif; (Mouse liver) (Kosuga, K. (1260) 345)

Squalene synthase
Cholesterol biosynthesis; cDNA cloning; Recombinant enzyme; (Mouse liver) (Inoue, T. (1260) 49)

Src oncogene
Potassium ion channel, calcium-activated; Calcium ion channel, T-type; $pp60^{v\text{-}src}$; NIH3T3 cell; Charybdotoxin (Draheim, H.J. (1269) 57)

Srp
Signal recognition; GTPase; Mutant (Samuelsson, T. (1267) 83)

SRP-receptor
Ribosomal gene cluster; Transcription unit; Secretory component secEp; (*S. acidocaldarius*) (Moll, R. (1261) 315)

23 S rRNA *N*-glycosidase
Ribosomes; Protein synthesis (inhibition); Ribosome-inactivating proteins; (*S. lividans*) (Ferreras, J.M. (1243) 85)

Stability
Vesicle; Gradient loading; Microreactor; Phase transition; Drug encapsulation; Intraliposomal precipitation; Doxorubicin gel (Lasic, D.D. (1239) 145)

Lipase; Calcium binding; Sequence alignment; (*Pseudomonas* species) (Svendsen, A. (1259) 9)

Stabilization
Protein function; Subtilisin; Molecular interaction; Protein engineering; Site-specific mutagenesis; Cytochrome *c*; Metal-mediated cross-linking (Ó Fágáin, C. (1252) 1)

Chaotropic agent; Polyhydric compound; Protein unfolding; Water structure; Fourier transform Raman spectroscopy (Taylor, L.S. (1253) 39)

Starch
α-1,4-Glucan lyase; 1,5-Anhydro-D-fructose; Glycogen (Yu, S. (1244) 1)

VLDL secretion rate; VLDL composition; HDL binding; Sucrose; (Guinea pig) (Fernandez, M.L. (1256) 31)

Starvation
Tricarboxylate carrier; Lipogenesis; Reconstitution; Mitochondrion; (Rat liver) (Zara, V. (1239) 33)

Superoxide dismutase; Differentiation; Sporulation; (*F. oxysporum*) (Kono, Y. (1268) 35)

State I–State II transition
Cyanide inhibition; LHC-kinase; (*C. reinhardtii*) (Gans, P. (1228) 51)

State transition
Antenna size; Photosynthetic unit; Pump-probe fluorescence method (Samson, G. (1232) 21)

Red alga; Kinase inhibitor; Phosphatase inhibitor (Delphin, E. (1232) 91)

Steady-state fluorescence polarization
Plasma membrane fluidity; Sterol; Phospholipid; Fatty acid; (*Bryonia dioica*) (Mathieu, C. (1235) 249)

Steady-state kinetics
NADH dehydrogenase; Assay condition; Flavoprotein; Electron transfer; Hexammineruthenium(III); (Bovine heart mitochondria) (Gavrikova, E.V. (1230) 23)

Electron transfer; Electrostatic interaction; Respiratory chain; (*P. denitrificans*) (Witt, H. (1230) 74)

Glutamate dehydrogenase; Kinetic mechanism; Archaebacterial; Thermophile; (*Thermococcales*) (Hudson, R.C. (1250) 60)

Stearylamine
DSC; Sphingosine; Phosphatidylserine; FTIR; Calcium ion binding (López-García, F. (1236) 279)

Liposome; Drug delivery; Permeability; Cancer; Multidrug resistance (Webb, M.S. (1238) 147)

Stentorin ciliate
Photoreceptor; Photosensory transduction; Photophobic response; (*S. coeruleus*) (Dai, R. (1231) 58)

ST-EPR
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Membrane composition; Mass spectrometry; Aging; EPR (Krainev, A.G. (1235) 406)

Stereoselectivity
Cancer; Cultured cell; Esterase; Anticancer agent; Prodrug; (Rat) (Yamazaki, Y. (1243) 300)

Stereospecificity
Dipeptide; Membrane transport; Small intestine; (Rat) (Sykes, A.P. (1237) 70)

Sterically stabilized liposome
Poly(ethylene glycol); Liposome targeting; Doxorubicin; Immunoliposome; Selective toxicity; Toxicity (Allen, T.M. (1237) 99)

Antibody conjugation; Poly(ethylene glycol); Drug delivery system; Targeted drug delivery (Hansen, C.B. (1239) 133)

Steric property
Local anesthetic; Partition coefficient; Membrane; Lipid bilayer; Spin label; EPR; Fluorescence (De Paula, E. (1240) 25)

Steroid
DSC; Solid state ^{2}H-NMR; NMR, solid state ^{2}H-; Drug–membrane interaction; Alphaxalone; Δ^{16}-Alphaxalone (Mavromoustakos, T. (1239) 257)

Steroid 11β-hydroxylase
Cytochrome $P\text{-}450_{11\beta}$; Nucleotide sequence; Adrenal cortex; (Sheep) (Boon, W.C. (1260) 109)

Steroid biosynthesis
Cytochrome $P\text{-}450_{c21}$; EPR; 20β-Hydroxyprogesterone (Tsubaki, M. (1259) 89)

Steroid hormone
Clusterin; Apoptosis; Protein kinase C; RU 486 (Flach, R. (1268) 325)

Steroidogenesis
3β-Hydroxy-5-ene steroid dehydrogenase/Δ^5-Δ^4-ene isomerase; Proteoliposome; (Bovine adrenal) (Yamazaki, T. (1257) 293)

Adrenodoxin; cDNA; Adrenal; Mitochondrion; (Mouse) (Stromstedt, M. (1261) 126)

Steroidogenic acute regulatory protein
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Steroid oxidation
Bacterial steroid monooxygenase; Baeyer–Villiger enzyme; Purification; Characterization; Flavoenzyme (Miyamoto, M. (1251) 115)

Sterol
Phospholipid; Ripple phase; X-ray diffraction; Lipid phase behavior (Cunningham, B.A. (1233) 75)

Plasma membrane fluidity; Steady-state fluorescence polarization; Phospholipid; Fatty acid; (*Bryonia dioica*) (Mathieu, C. (1235) 249)

Antibiotic; Polyene macrolide antibiotic; Membrane modeled medium; Amphotericin B–sterol interaction; Cell toxicity correlation (Mazerski, J. (1236) 170)

Cholesteryl ether; Cholesteryl acetate; Mixed monolayer; Lateral domain; Miscibility; Condensation; Surface potential (Slotte, J.P. (1237) 127)

Acylated steryl glucoside; Lipid hydration; Lipid phase behavior; Freezing; Hexagonal II phase transition; (Plasma membrane) (Webb, M.S. (1239) 226)

Glycoalkaloid; Tubular structure; Glycolipid (Keukens, E.A.J. (1240) 216)

Cholesteryl sulfate; Blood platelet; Aggregation; Secretion; Thromboxane (Blache, D. (1259) 291)

Sterol carrier protein-2
Non-specific lipid-transfer protein; Lactase-phlorizin hydrolase; Plasma membrane protein; Peroxisome; (Rat intestine) (Wouters, F.S. (1259) 192)

Sterol function
NMR order parameter; Transverse deuteron relaxation; Cross polarization spin dynamics; Relaxation process, ^{13}C; Cooperative lipid motion (Urbina, J.A. (1238) 163)

Sterol metabolism
Bile acid; Cholesterol; Hyodeoxycholic acid; α-Hyocholic acid; Lipoprotein (Cohen-Solal, C. (1257) 189)

Sterol–phospholipid interaction
Sterol side chain; Cholesterol; Phosphatidylcholine; Sphingomyelin; Monolayer membrane; Lipid domain (Mattjus, P. (1240) 237)

Sterol 14-reductase
Cholesterol biosynthesis; Diurnal rhythm (Kim, C.-K. (1259) 39)

Sterol side chain
Cholesterol; Phosphatidylcholine; Sphingomyelin; Monolayer membrane; Sterol–phospholipid interaction; Lipid domain (Mattjus, P. (1240) 237)

Sterol synthesis
Lovastatin; Simvastatin; Pravastatin; HMG-CoA reductase inhibitor; Transport; (Human cell) (Van Vliet, A.K. (1254) 105)

Sterol transport
Lipid particle; Steryl ester; Steryl-ester hydrolase; Plasma membrane; Terbinafine; (*S. cerevisiae*) (Leber, R. (1234) 119)

Steryl ester
Lipid particle; Sterol transport; Steryl-ester hydrolase; Plasma membrane; Terbinafine; (*S. cerevisiae*) (Leber, R. (1234) 119)

Steryl-ester hydrolase
Lipid particle; Sterol transport; Steryl ester; Plasma membrane; Terbinafine; (*S. cerevisiae*) (Leber, R. (1234) 119)

Stimulation-secretion coupling
Flow culture system; Hepatocyte growth factor; Interleukin-1α; Embryonic lung fibroblast; (Human) (Shimizu, M. (1244) 357)

STM1
TOM1; *HTR1*; Multi-copy suppressor; (*S. cerevisiae*) (Utsugi, T. (1263) 285)

Stochastic computer simulation
Excitation energy transfer; Phycobilisome; Single-step transfer; Computer simulation; (Blue-green alga) (Zhao, J. (1229) 39)

Stopped-flow kinetics
D-Lactate dehydrogenase; Electron paramagnetic resonance; Semiquinone; (*E. coli*) (Sun, Z.-Y. (1252) 269)

Stratum corneum
EPR; Hydration effect; Phase transition; Membrane fluidity (Alonso, A. (1237) 6)

Electroporation; Iontophoresis; Passive electrical properties; Impedance; Dynamic resistance; (Human skin) (Pliquett, U. (1239) 111)

ST receptor
Guanylyl cyclase C; Enterotoxin, heat-stable; Internalization; T84 human colon carcinoma cell; (*E. coli*) (Urbanski, R. (1245) 29)

Streptavidin
Protein-lipid binding; Polyacrylamide gel electrophoresis; Lipid vesicle; Micelle; Cholera toxin; Ganglioside; Annexin (Arnold, M. (1233) 198)

Sequence comparison; Biotin-binding protein; (*Streptomyces*) (Bayer, E.A. (1263) 60)

Streptothricin
Antibiotic resistance; *sat*3 gene; Bacterial plasmid; Incompatibility group IncQ; Nucleotide sequence (Tietze, E. (1263) 176)

Streptozotocin-induced diabetes
Brain; ATPase, Na^+/K^+-; Isoenzyme (Vér, Á. (1237) 143)

Stress
Zinc; Metallothionein; Tumor; Inflammation; Liver (Takeda, A. (1243) 325)

Crystallin; Gene; Promoter; Evolution; Heat shock (Wistow, G. (1263) 105)

Stress tolerance
Ubiquitin; Protein damage; Cadmium toxicity; (*S. cerevisiae*) (Chen, Y. (1268) 59)

Structural alteration
Glycoprotein; *N*-Glycan chain; Malignant transformation; (Rat normal cell); (Rat tumor cell) (Goulut-Chassaing, C. (1244) 30)

Structural assignment
Keratan sulfate oligosaccharide; NMR, ^1H-; Repeat sequence; Chain cap; Keratanase digestion (Huckerby, T.N. (1244) 17)

Structural gene
White-rot basidiomycete; Lignin peroxidase; (*Trametes (Coriolus) versicolor*) (Johansson, T. (1263) 71)

Structural isomer
Triacylglycerol; Chylomicron; (Rat); (Hamster) (Pufal, D.A. (1258) 41)

Structural substrate specificity
N^G-Methylarginine; *S*-Adenosylmethionine:protein-arginine *N*-methyltransferase; (Protein methylase I) (Rawal, N. (1248) 11)

Structure
Neuropeptide; NMR; Prejunctional receptor (Barden, J.A. (1250) 83)

Cytochrome oxidase; Yeast; Subunit interaction; (*S. cerevisiae*) (Meunier, B. (1253) 13)

Ribonuclease A; Binding site; Catalysis; Enzyme kinetics (Nogués, M.V. (1253) 16)

Structure–activity relationship
Antimycin A; Cytochrome bc_1 complex; Mitochondrion (Miyoshi, H. (1229) 149)

Proteinase inhibitor; Disulfide linkage; Bowman–Birk type inhibitor; (*D. biflorus*); (*M. uniflorum*) (Ramasarma, P.R. (1248) 35)

Enzyme characterization; Sphingomyelin; Sphingomyelin analog; Neutral pH-optimum sphingomyelinase; Mammal (Lister, M.D. (1256) 25)

Amino acid; Arsono compound; Caco-2 cell; Carrier-mediated transport; pH and sodium dependence (Nicklin, P.L. (1269) 176)

Structure alteration
Intermediate structure; Hemoglobin; Ligand binding; Quaternary structure (Arata, Y. (1247) 24)

Structure determination
Amphipathic helix; Alpha helix; Spiralin; NMR; Distance geometry; Annealing (Bondon, A. (1235) 169)

Structure–function relationship
Antarctic eel pout; Type III antifreeze peptide; Peptide heterogeneity; Large size variant; Amino acid sequence; (*L. dearborni*) (Wang, X. (1247) 163)

Pyridoxal phosphate; Active site; Enzyme inactivation; Cofactor-dependent enzyme (John, R.A. (1248) 81)

Structure homology
Heat-shock protein; Calorimetry (Dudich, I.V. (1253) 163)

Structure of LYS(38–51)
Protein folding; Peptide fragment; Nucleation site (Najbar, L.V. (1250) 163)

Structure–transport relation
Intestinal transport; Peptide transporter; Computational chemistry (Swaan, P.W. (1236) 31)

Subcellular
15-HETE; Binding; RBL-1 cell; Lipoxygenase (Kang, L.-T. (1256) 297)

Subcellular distribution
K*rev*-1/*rap* 1/ *smg* 21 protein; *Ras* protein; Brain; Spinal cord; Synaptosome (Urayama, O. (1243) 446)

Phosphatidic acid phosphohydrolase; Tissue distribution; Translocation (Fleming, I.N. (1254) 161)

Subcellular localization
Dihydroxyacetone phosphate acyltransferase; Alkyl-dihydroxyacetone phosphate synthase; Microbody; Glycosome; (*T. brucei*) (Zomer, A.W.M. (1257) 167)

Subfractionation
Endoplasmic reticulum; Golgi system; Ubiquinone biosynthesis (Teclebrhan, H. (1256) 157)

Sub-main transition
Lipid bilayer; Phospholipid; Phase transition; DSC (Jørgensen, K. (1240) 111)

Submembrane calcium ion
EGTA; Sodium–calcium ion exchange; Ionophore A23187; Temperature; Giant patch; Cardiac membrane (Kabakov, A.Y. (1240) 142)

Submitochondrial particle
Redox cycle; Superoxide anion; Lipid peroxidation; Mitochondrion; Respiratory chain; (Rat liver) (Klöhn, P.-C. (1229) 363)

Subpopulation
Electroporation; Molecular transport; Heterogeneity; Flow cytometry; (Yeast) (Gift, E.A. (1234) 52)

Subsite of active site
Heat shock gene; Promoter; Heat shock factor; Gel retardation assay; (*S. mansoni*) (Levy-Holtzman, R. (1264) 134)

Substance P
Preprotachykinin; Transcription factor AP2; Gene transcription (Quinn, J.P. (1263) 25)

HL60 cell; TNF-α; Priming; Tyrosine; Phosphorylation (Lloyds, D. (1267) 65)

Substituent effect
Tryptophan tryptophylquinone; Enzyme inhibition; Transition state (Davidson, V.L. (1252) 146)

Substrate binding
Papain; Specificity; Inhibitor binding; Cooperativity (Liu, S. (1250) 43)

Substrate-binding peptide
Flavoenzyme; Oxidoreductase; Chemical modification (Huang, D.-Y. (1243) 431)

Substrate effect
Sodium ion/phosphate cotransporter; Phosphate transport; pH effect; Allosteric regulatory site; Divalent phosphate, intervesicular; Brush-border membrane; (Intestine) (Peerce, B.E. (1239) 1)

Substrate specificity
Hemorrhagic metalloproteinase; Snake venom; (*B. arietans*) (Yamakawa, Y. (1247) 17)

Aldose reductase; 4-Hydroxynonenal; Detoxification; Diabetic complication (Vander Jagt, D.L. (1249) 117)

1-Acyl-*sn*-glycero-3-phosphoinositol acyltransferase; Phosphatidylinositol; Acyl-CoA; Polyunsaturated fatty acid; Icosanoid precursor; (Rat submandibular gland microsome) (Yashiro, K. (1258) 288)

Subtilisin
Autolysis; Autoproteolysis; Sapstain; (*Ophiostoma*) (Abraham, L.D. (1245) 76)

Protein function; Stabilization; Molecular interaction; Protein engineering; Site-specific mutagenesis; Cytochrome *c*; Metal-mediated cross-linking (Ó Fágáin, C. (1252) 1)

Proteolytic enzyme; Particle; Surface; Inactivation; Autolysis (Maste, M.C.L. (1252) 261)

Subtractive cDNA hybridization
Ribosomal protein; Colon cancer; Gastric cancer; Ubiquitin; UbA52; UbA80; Cancer (Barnard, G.F. (1272) 147)

Subtractive hybridization
cDNA cloning; Natural killer cell; Proline-rich protein (Chen, J. (1264) 19)

Subunit
Liposome; ISCOM; Vaccine; Vehicle; Adjuvant (Kersten, G.F.A. (1241) 117)

γ Subunit
ATPase, F_0F_1-; Regulation; Cyanobacterium (Steinemann, D. (1230) 80)

Subunit complex
ATPase; ATPase, F_1-; Cys-/Trp-less mutant; F_1; Thermophile (Matsui, T. (1231) 139)

Subunit composition
Photosystem I; Crystallization; Thermophilic cyanobacterium; Monomer preparation (Jekow, P. (1229) 115)

Cytochrome *c* oxidase; Nucleotide binding; Tissue-specific isozyme; Proton pump; Leigh's syndrome (Kadenbach, B. (1271) 103)

Subunit interaction
ATPase, F_1-; ATP binding domain; Alpha subunit (Miyauchi, M. (1229) 225)

Cytochrome oxidase; Yeast; Structure; (*S. cerevisiae*) (Meunier, B. (1253) 13)

Subunit RC6-I
cDNA cloning; Multicatalytic proteinase complex; Proteasome (Ni, R. (1264) 45)

Subunit VIII
cDNA sequence; Ubiquinol–cytochrome-*c* oxidoreductase; (*Schizosaccharomyces pombe*) (Boumans, H. (1229) 386)

Succinate dehydrogenase
Complex I; Complex II; MPTP; MPP^+; Myopathy; NADH dehydrogenase; NADH-Q oxidoreductase (Singer, T.P. (1271) 211)

Succinate:menaquinone oxidoreductase
Trinuclear iron-sulfur cluster; Site-directed mutagenesis; Iron-sulfur cluster; EPR; (*B. subtilis*) (Hägerhäll, C. (1229) 356)

Sucrase-isomaltase
mRNA; Dietary carbohydrate; Long-chain triacylglycerol; Medium-chain triacylglycerol; Jejunum; (Rat) (Yasutake, H. (1243) 270)

Sucrose
VLDL secretion rate; VLDL composition; HDL binding; Starch; (Guinea pig) (Fernandez, M.L. (1256) 31)

Sugar chain
γ-Glutamyl transferase; Post-translational modification; Cancer; Precursor form; (Human); (Kidney) (Arai, K. (1253) 33)

Sugar chain, *N*-linked
Polyprenyl phosphate; Melanoma cell; Cell adhesion (Shirane, K. (1268) 285)

Suicide inhibitor
Ribonucleotide reductase; EPR; azidoCDP (Behravan, G. (1264) 323)

Suicide protein inhibitor
β-Lactamase; Clavulanate; Sulbactam; Tazobactam (Bonomo, R.A. (1247) 113)

β-Lactamase; Clavulanate; Sulbactam; Tazobactam (Bonomo, R.A. (1247) 121)

Sulbactam
β-Lactamase; Clavulanate; Tazobactam; Suicide protein inhibitor (Bonomo, R.A. (1247) 113)

β-Lactamase; Clavulanate; Tazobactam; Suicide protein inhibitor (Bonomo, R.A. (1247) 121)

Sulfatase conservation
Mucopolysaccharidosis Type VI; Maroteaux-Lamy syndrome (Simonaro, C.M. (1272) 129)

Sulfate
Lysosome; Transport; Membrane vesicle (Koetters, P.J. (1235) 79)

Sulfate assimilation
Cysteine biosynthesis; Cysteine synthase; *O*-Acetylserine (thiol)-lyase; *O*-Acetyl-L-serine (Yamaguchi, T. (1251) 91)

[^{35}S]Sulfate incorporation
Proteoglycan synthesis; Des (1-3) IGF-I; Monolayer (Sunic, D. (1245) 43)

Sulfate transport
Lysosome; Proteoliposome (Koetters, P.J. (1244) 311)

Sulfation
Proteoglycan; Glycosaminoglycan; B cell differentiation; Syndecan (Engelmann, S. (1267) 6)

Sulfhydryl
D-Lactate dehydrogenase; Ellman's reagent; n-Octyl-5-dithio-2-nitrobenzoic acid; (*E. coli*) (Dowd, S.R. (1252) 278)

Sulfhydryl group
ATPase, Na^+/K^+-; Etoposide; Phenoxyl radical; Antioxidant; Ascorbate; EPR (Kurella, E.G. (1232) 52)

Leghemoglobin; Cysteine; EPR; Oxidative damage; Nitrogen fixation; (Root nodule) (Puppo, A. (1246) 74)

Sulfhydryl specific reagent
Sodium ion/phosphate cotransporter; Phosphate transport; Inhibition; Molecular mechanism; Brush-border membrane; (Intestine) (Peerce, B.E. (1239) 11)

Sulfite oxidase
cDNA cloning; Sequence comparison; (Human liver) (Garrett, R.M. (1262) 147)

Sulfite toxicity
Nitric oxide; Nitric oxide derivative; Platelet aggregation; Signaling; Respiratory disease (Harvey, S.B. (1267) 41)

Sulfonylurea
Diarylsulfonylurea; Antitumor drug; Binding protein; (HeLa cell) (Morré, D.J. (1236) 237)

Diarylsulfonylurea; Antitumor drug; NADH oxidase; Plasma membrane; HeLa cell; Hepatoma; (Rat liver) (Morré, D.J. (1240) 11)

NADH oxidase activity; Inhibition; Antitumor drug; Plasma membrane; HeLa cell (Morré, D.J. (1240) 201)

Diarylsulfonylurea; Antitumor drug; Binding protein; HeLa cell (Morré, D.J. (1244) 133)

Sulfur
Thioether; Methyltransferase; *S*-Adenosylmethionine; cDNA cloning; Selenium; (Mouse lung) (Warner, D.R. (1246) 160)

Sulfur-substituted fatty acid
Acetyl-CoA hydrolase; Propionyl-CoA hydrolase; Mitochondrion; Peroxisome; NADH; Liver; (Rat) (Garras, A. (1255) 154)

Sulfydryl group
Erythrocyte membrane; *N*-Ethylmaleimide; Iodoacetamide; Sodium/lithium ion countertransport; Thiol group; Transport kinetics (Thomas, T.H. (1235) 317)

Superoxide
Paraquat; Mitochondrion; Herbicide toxicity (Palmeira, C.M. (1229) 187)

Peroxynitrite; Spin trapping; Hydroxyl radical; Nitric oxide (Pou, S. (1244) 62)

Okadaic acid; Dephosphorylation; Opsonized zymosan; HL-60 cell (Suzuki, K. (1266) 261)

Anoxia; Reoxygenation; Cell injury; Lactic dehydrogenase; Oxygen free radical; Allopurinol; Antimycin; Diphenyleniodonium; Superoxide dismutase; Tetramethylpiperidine-1-oxyl (Caraceni, P. (1268) 249)

Aging; Mitochondrion; Mutation; Apoptosis; Complex I (Cortopassi, G. (1271) 171)

Superoxide anion
Redox cycle; Lipid peroxidation; Mitochondrion; Submitochondrial particle; Respiratory chain; (Rat liver) (Klöhn, P.-C. (1229) 363)

Vascular smooth muscle; NADPH oxidase; Cytochrome *b*-558; cDNA cloning (Fukui, T. (1231) 215)

Antioxidant; Demethyldiisoeugenol; Lipid peroxidation; Peroxyl radical; Free radical (Ko, F.-N. (1258) 145)

Monocyte; Cell differentiation; Retinoic acid; 1,25-Dihydroxyvitamin D_3 (Obermeier, H. (1269) 25)

Superoxide dismutase
Redox potential; EPR; Copper-zinc superoxide dismutase; Iron superoxide dismutase; (Bovine); (*E. coli*) (Verhagen, M.F.J.M. (1244) 99)

Starvation; Differentiation; Sporulation; (*F. oxysporum*) (Kono, Y. (1268) 35)

Anoxia; Reoxygenation; Cell injury; Lactic dehydrogenase; Oxygen free radical; Superoxide; Allopurinol; Antimycin; Diphenyleniodonium; Tetramethylpiperidine-1-oxyl (Caraceni, P. (1268) 249)

Superoxide ion
Macrophage; U-937 cell; fMLP; Fura-2; Dihydrorhodamine-123; Rhodamine-123 (Bueb, J.-L. (1244) 79)

Superoxide radical
Heart; Mitochondrion; Dihydrolipoic acid; α-Lipoic acid; Ubisemiquinone (Schönheit, K. (1271) 335)

Supported monolayer
Calcium signal; B lymphocyte; Fluidity; Lipid hapten; Confocal fluorescence microscopy; (Mouse) (Katayama, H. (1266) 191)

Suppressor mutation
ATPase, H^+-; Site-directed mutagenesis; Coupling; Yeast; (*S. cerevisiae*) (Anand, S. (1234) 127)

***Suppressor-of-hairless* gene**
Pooled genomic denaturing gradient electrophoresis; *Extramacrochaetae* gene; (*D. melanogaster*) (Mickey, G. (1260) 123)

Surface
Proteolytic enzyme; Subtilisin; Particle; Inactivation; Autolysis (Maste, M.C.L. (1252) 261)

Surface activity
Surfactant-associated protein C, SP-C; Palmitoylation; Phospholipid; Lysophospholipid; pH (Qanbar, R. (1255) 251)

Surface balance
Langmuir film; Dipalmitoylphosphatidylcholine; Dipalmitoylphosphatidylglycerol; Lipid–protein interaction (Taneva, S.G. (1236) 185)

Surface layer, crystalline
Liposome; S layer; Cell surface protein; Immobilization; (*B. coagulans*) (Küpcü, S. (1235) 263)

Surface modification
Neutrophil; Adhesion; Arterial material; Polystyrene (Wakabayashi, Y. (1243) 521)

Surface potential
Organic cation; Tryptamine; Liposome; Inhibition; Brush-border membrane; (Rat intestine) (Sugawara, M. (1234) 22)

Phospholipid composition; Plasma membrane; (Yeast) (Cerbón, J. (1235) 100)

Phospholipase A_2; Domain formation; Fluorescence microscopy; Monolayer; Air/water interface; Asymmetric lipid; Fatty acid (Maloney, K.M. (1235) 395)

Sterol; Cholesteryl ether; Cholesteryl acetate; Mixed monolayer; Lateral domain; Miscibility; Condensation (Slotte, J.P. (1237) 127)

Surface tension
Hydrophobic surfactant protein; Acylated protein; Dimeric protein; Pulmonary surfactant (Creuwels, L.A.J.M. (1254) 326)

Surfactant
Detergent; Thylakoid membrane; Solubilization; Turbidity; Cyanobacterium; (*Phormidium laminosum*) (Ochoa de Alda, J.A.G. (1240) 209)

Schiff base; Retinal binding protein; Water pool; Retinylidine; Hydrogen bonding (Singh, A.K. (1245) 167)

Lung; Fibroblast; Type II cell; Triacylglycerol (Torday, J. (1254) 198)

Inflammation; Lavage; Silica; Activation (Viviano, C.J. (1259) 235)

Surfactant-associated protein
Pulmonary surfactant; Glucocorticoid; Transcription; mRNA level; Fetal development; Respiratory distress syndrome (Xu, J. (1254) 302)

Pulmonary surfactant; Circular dichroism; Secondary structure; Intrinsic fluorescence; Organic solvent (Cruz, A. (1255) 68)

Surfactant-associated protein C, SP-C
Palmitoylation; Surface activity; Phospholipid; Lysophospholipid; pH (Qanbar, R. (1255) 251)

Surfactant protein A
Alveolar type II cell; Surfactant protein C; Phospholipid; Liposome (Pinto, R.A. (1255) 16)

Pulmonary surfactant; Phospholipid; Alveolar type II cell (Hiraike, N. (1257) 214)

Surfactant protein C
Alveolar type II cell; Surfactant protein A; Phospholipid; Liposome (Pinto, R.A. (1255) 16)

Surrogate substrate
Neuropathy target esterase; Esterase; Colorimetric substrate (Borhan, B. (1250) 171)

Survival factor
Atherosclerosis; Apolipoprotein H; Endothelial cell; Serum-free medium (Cai, G. (1269) 13)

SV40 shuttle vector
Triple helix; Psoralen; Homologous recombination (Sandor, Z. (1263) 235)

Swelling
Permeability transition; Mitochondrion; Channel; Calcium; Electrophysiology (Zoratti, M. (1241) 139)

Swelling-induced chloride current
cDNA cloning; Chloride current; (Rabbit heart) (Okada, H. (1234) 145)

Swine
Biological transport; Physiology; Amino acid; Glucose; Small intestine; Chloride (Munck, L.K. (1238) 49)

Synapsin I
Transcriptional regulation; cAMP responsive element; Protein kinase A; Neuronal gene expression (Hoesche, C. (1261) 249)

Synaptic vesicle
Actin network; Gelsolin; Dynamic light scattering (Miyamoto, S. (1244) 85)

Synaptonemal complex
cDNA sequence; Meiosis; (Mouse) (Sage, J. (1263) 258)

Synaptosome
Δ^1-Piperidine-2-carboxylate; Transport; Metabolism; Neuromodulator (Chang, Y.-F. (1238) 29)

K*rev*-1/*rap* 1/ *smg* 21 protein; *Ras* protein; Brain; Spinal cord; Subcellular distribution (Urayama, O. (1243) 446)

Synchronized culture
Dielectric relaxation; Permittivity; Interfacial polarization; Non-spherical cell; Growth curve (Asami, K. (1245) 317)

Synchronous culture
Nitrogen assimilation regulation; Nitrite reductase; Light/dark cycle; (Green alga) (Pajuelo, E. (1249) 72)

Synchrotron X-ray diffraction
Intermediate filament; α-Keratin (Wilk, K.E. (1245) 392)

Syndecan
Proteoglycan; Glycosaminoglycan; Sulfation; B cell differentiation (Engelmann, S. (1267) 6)

Synergistic effect
Arachidonic acid; 20-Hydroxyarachidonic acid; Retinoic acid; Peroxisome proliferation; Fatty acyl-CoA oxidase; Catalase; Retinoid X receptor; (Morris Hepatoma 7800C1 cell) (Sohlenius, A.-K. (1258) 257)

Synexin
Chromaffin; Protein synthesis; Secretion; Cycloheximide; Actinomycin D (Cardenas, A.M. (1234) 255)

Synexin polymerization
Lung surfactant secretion; Exocytosis; Liposome fusion (Liu, L. (1254) 274)

Synthetic amphiphile
Transfection; DOTMA; COS-7; Carrier (Van der Woude, I. (1240) 34)

Synthetic gene
Leukemia inhibitory factor; hLIF; Gene expression; Expression vector; Protein characterization; (*E. coli*); (Human) (Samal, B.B. (1260) 27)

Synthetic glyceride
Pancreatic lipase; Kinetic behavior; Tributyrin emulsion; Monomolecular film (Gargouri, Y. (1257) 223)

Synthetic oligonucleotide
Hairpin oligonucleotide phosphorothioate; 2′-Methoxynucleoside; Exonuclease resistance; Hairpin structure; T_m value; RNAase H activity (Hosono, K. (1244) 339)

Synthetic peptide
pp60$^{c\text{-}src}$; Protein tyrosine kinase; Enzyme assay (Budde, R.J.A. (1248) 50)

System y$^+$
Arginine; Transport; Epidermal growth factor; Transforming growth factor α; Phorbol ester; Protein kinase C (Pan, M. (1239) 27)

T

Table-top ultracentrifuge
VLDL; LDL; HDL; Albumin; Centrifugal field (Pietzsch, J. (1254) 77)

Tacrine
Physostigmine; Lysosome; Thymocyte; Neuroblastoma cell; Alzheimer's disease (Dell'Antone, P. (1270) 137)

Tamm-Horsfall protein
Uromodulin; Nucleotide sequence; (Mouse) (Prasadan, K. (1260) 328)

Tandem repeat
Protein kinase; Intron; Homology; (Dictyostelium discoideum) (Wetterauer, B.W. (1265) 97)

Targeted drug delivery
Liposome; Immunoliposome; Monoclonal antibody; Ovarian carcinoma; (Human) (Nässander, U.K. (1235) 126)

Sterically stabilized liposome; Antibody conjugation; Poly(ethylene glycol); Drug delivery system (Hansen, C.B. (1239) 133)

Targeted mutagenesis
rDNA; 5.8S rRNA; Internal transcribed spacer (Abou Elela, S. (1262) 164)

Targeting presequence
Mitochondrion; Cytochrome-*c* reductase; Iron-sulfur protein; cDNA; (*C. fasciculata*); (*T. brucei*) (Priest, J.W. (1269) 201)

Taurine
Cysteine sulfinic acid decarboxylase; cDNA (Kaisakia, P.J. (1262) 79)

Taurine transporter
Adaptive response; mRNA level; Protein synthesis; RNA synthesis; Choriocarcinoma cell; (Placenta) (Jayanthi, L.D. (1235) 351)

Tax
HTLV-I; Gene expression; (Mouse) (Nacken, W. (1261) 432)

Tay-Sachs disease
β-Hexosaminidase A; β-Hexosaminidase α chain mutation (Ribeiro, M.G. (1270) 44)

Tazobactam
β-Lactamase; Clavulanate; Sulbactam; Suicide protein inhibitor (Bonomo, R.A. (1247) 113)

β-Lactamase; Clavulanate; Sulbactam; Suicide protein inhibitor (Bonomo, R.A. (1247) 121)

T cell
Gene structure; CD40 ligand; Ig heavy chain; Chromosome X-linked hyper-IgM syndrome (Shimadzu, M. (1260) 67)

Alternative splicing; High mobility group box; Transcription (Mayer, K. (1263) 169)

T cell activation
Phosphatidylinositol-4-kinase; CD4 antibody; Cell–cell adhesion (Pertile, P. (1248) 129)

Interleukin 2; Promoter; Signal transduction; Transcription factor (Serfling, E. (1263) 181)

***t*-complex protein 1 (TCP-1)**
Chaperonin; Axolotl; Embryonic expression; Embryogenesis (Sun, H.B. (1260) 157)

Telencephalon
Transcription factor; Fork head; Neuron; Chromosome 14q; Brain factor; (Human) (Wiese, S. (1262) 105)

Temperature
Cell viability; (Yeast) (Gervais, P. (1235) 52)

Ionizable mobile carrier; Alkali cation transport kinetics; Competitive transport selectivity; pH; Lipid membrane (Loiseau, A. (1238) 107)

EGTA; Sodium–calcium ion exchange; Ionophore A23187; Submembrane calcium ion; Giant patch; Cardiac membrane (Kabakov, A.Y. (1240) 142)

Heme reorientation; Myoglobin; Heme-insertion isomer (Yee, S. (1252) 295)

Temperature dependence
D1-D2-cytochrome *b*-559 complex; Photosystem II; Magnetic field effect; Radical pair mechanism; Absorbance difference spectra (Van der Vos, R. (1228) 73)

Temperature effect
Carnitine palmitoyltransferase; Fatty acid oxidation; Malonyl-CoA; Enzyme inhibition; Mitochondrion; Liver (Kashfi, K. (1257) 133)

Temperature jump
CCCP; Valinomycin; Liposome; Membrane; Ion transport; Proton transport (Prabhananda, B.S. (1235) 323)

Temporomandibular joint disc
Fibrocartilage; Dermatan sulfate; Proteoglycan (Scott, P.G. (1244) 121)

Terbinafine
Lipid particle; Sterol transport; Steryl ester; Steryl-ester hydrolase; Plasma membrane; (*S. cerevisiae*) (Leber, R. (1234) 119)

Tertiary structure
Anticoagulant peptide; Secondary structure; Circular dichroism; Fourier transform infrared spectroscopy; Fluorescence; Disulfide reduction; Molten globule (Sanyal, G. (1249) 100)

Testis-specific
hst70 gene; hsp70 gene; Transgenic mouse; (Brain) (Widłak, W. (1264) 191)

Tether
Rhodanese; Domain; Site-directed mutation; Protein folding (Luo, G.-X. (1252) 165)

Tetradecanoylphorbol acetate
Extracellular signal-regulated kinase (erk); Okadaic acid; Signal transduction; Heat shock; HeLa cell (Heider, H. (1265) 196)

Diacylglycerol; Translocation PKC; Cholecystokinin; Protein kinase C; L-364,718 (Bastani, B. (1269) 307)

12-*O*-Tetradecanoylphorbol-13-acetate
PDGF-A; Gene regulation; Serum; Cycloheximide (Takimoto, Y. (1260) 176)

Tetraether lipid
Cytochrome-*c* oxidase; Reconstitution (Elferink, M.G.L. (1230) 31)

Tetraethylammonium (TEA)
Transport; Organic cation; Kidney; 1-Methyl-4-phenylpyridinium (MPP^+) (Wright, S.H. (1240) 18)

Tetraethylammonium transport
Proximal tubule; Tetrapentylammonium; Organic cation transport; (Rabbit kidney) (Groves, C.E. (1234) 37)

Tetrahydrobiopterin
Sepiapterin reductase; cDNA; Cloning; (Mouse) (Ota, A. (1260) 320)

Tetramethylpiperidine-1-oxyl
Anoxia; Reoxygenation; Cell injury; Lactic dehydrogenase; Oxygen free radical; Superoxide; Allopurinol; Antimycin; Diphenyleniodonium; Superoxide dismutase (Caraceni, P. (1268) 249)

Tetranitromethane
Uridine phosphorylase; Amino acid modification; Tyrosine; (*E. coli*) (Komissarov, A.A. (1252) 239)

Tetrapentylammonium
Proximal tubule; Tetraethylammonium transport; Organic cation transport; (Rabbit kidney) (Groves, C.E. (1234) 37)

T7 expression system
Recombinant DNA; Transfer vector; Translational initiation; Insect cell; Heparin-affinity chromatography; Mitogen (Hills, D. (1260) 14)

TGF-α
Azoxymethane; Colonic mucosal ODC; EGF-receptor (Relan, N.K. (1244) 368)

TGF-β
Lecithin:cholesterol acyltransferase; Apo A-I; Liver; IL-6; Regulation; mRNA; Dexamethasone; HepG2 cell (Skretting, G. (1255) 267)

TGF-β1
Autoinduction; Inhibition of cell proliferation; Early gene response; Protein kinase C; Human breast adenocarcinoma cell (Lafon, C. (1266) 288)

TGF-β2
Lipoprotein lipase; LPL mRNA; Cytokine; (Rat mesenchymal heart cell) (Friedman, G. (1254) 140)

Thapsigargin
Cloned calcitonin receptor; Transfected HEK 293 cell; Calcium influx (Findlay, D.M. (1265) 213)

Endothelial cell; Calcium (Yamamoto, N. (1266) 157)

Hepatocyte; Calcium inflow; Magnesium inflow; Vasopressin; Lanthanide ion; (Rat) (Fernando, K.C. (1268) 97)

Theory
Liposome leakage; Carboxyfluorescein; Channel; Membrane-active agent; Mastoparan X (Schwarz, G. (1239) 51)

Thermal denaturation
α-Crystallin; Chaperone; Protein aggregation; Cataract; Lens (Rao, P.V. (1245) 439)

β-Lactoglobulin; DSC (Qi, X.L. (1248) 43)

Bromelain; Cysteine proteinase; Circular dichroism; DSC (Arroyo-Reyna, A. (1248) 123)

Thermal equilibration
Absorption spectrum; Fluorescence emission spectrum; Fluorescence yield; Photosystem II reaction center (Zucchelli, G. (1229) 59)

Thermal stability
Calorimetry; Bacteriorhodopsin; Cytochrome oxidase; Band 3 protein; Photosystem II (Haltia, T. (1228) 1)

Photosystem II; Chloroplast membrane; (*Arabidopsis*) (Tsvetkova, N.M. (1228) 201)

Thermodynamic analysis
Glucose-6-phosphate dehydrogenase; Enzyme; Antarctic fish; Kinetic analysis; Cold adaptation (Ciardiello, M.A. (1250) 76)

Thermodynamics-function correlation
Carbon monoxide binding reaction; Cytochrome $P\text{-}450_{cam}$ (Kato, M. (1246) 178)

Thermoluminescence
Bicarbonate depletion; Electron transport; Photoinhibition; Photosystem II; (Green alga) (Demeter, S. (1229) 166)

Photosystem II; Photoinhibition; FTIR; Plastoquinone; D1 protein (Ono, T.-a. (1229) 239)

Hypersensitive response; Lipid peroxidation; Fluorescence; (*N. tabacum*) (Stallaert, V.M. (1229) 290)

Thermophile
ATPase; ATPase, F_1-; Cys-/Trp-less mutant; F_1; Subunit complex (Matsui, T. (1231) 139)

Glutamate dehydrogenase; Kinetic mechanism; Steady state kinetics; Archaebacterial; (*Thermococcales*) (Hudson, R.C. (1250) 60)

Protein folding; Protein structure; Protein thermostability; Biotechnology; (*S. solfataricus*) (Facchiano, A.M. (1251) 170)

DNA topoisomerase I; Bacterium; Thermotoga; (*T. maritima*) (Bouthier de la Tour, C. (1264) 279)

Thermophilic cyanobacterium
Photosystem I; Crystallization; Monomer preparation; Subunit composition (Jekow, P. (1229) 115)

Thermostability
Archaea; ADP-ribose (Faraone-Mennella, M.R. (1246) 151)

α-Galactosidase; Amino acid substitution; Chimeric mutation (Ishii, S. (1270) 163)

Thermotoga
DNA topoisomerase I; Bacterium; Thermophile; (*T. maritima*) (Bouthier de la Tour, C. (1264) 279)

Thermotropic
Cerebroside; Glycolipid; LIPIDAT; Lyotropic; Sphingomyelin (Koynova, R. (1255) 213)

4-Thiaalkanoate
Mitochondrion; Bioactivation; Cysteine *S*-conjugate; Toxicity (Anders, M.W. (1271) 51)

Thiamin catalysis
Indolepyruvate decarboxylase; Indole-3-acetic acid; Pyruvate decarboxylase; Thiamin diphosphate; Crystallography (Koga, J. (1249) 1)

Thiamin diphosphate
Indolepyruvate decarboxylase; Indole-3-acetic acid; Pyruvate decarboxylase; Thiamin catalysis; Crystallography (Koga, J. (1249) 1)

Thiamine
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Thiocholesterol
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Thiocyanate
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Thioether
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6-Thioguanine
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Thiol
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Thiol/disulfide exchange
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Thiol group
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Thiol heme iron ligand
Thiopropionyl cytochrome *c*; Optical spectrum; NMR; EPR, continuous wave; Electron spin echo envelope modulation (Theodorakis, J.L. (1252) 103)

Thiol oxidation
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Thiol proteinase
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Thioltransferase
Glutathione; NMR; Thiol/disulfide exchange; Enzyme kinetics (Rabenstein, D.L. (1249) 29)

Thiopropionyl cytochrome *c*
Thiol heme iron ligand; Optical spectrum; NMR; EPR, continuous wave; Electron spin echo envelope modulation (Theodorakis, J.L. (1252) 103)

Chemically modified cytochrome *c*; Chromatographic separation; Cytochrome-*c* oxidase; Charge reversal effect; Oxidase activity (Theodorakis, J.L. (1252) 114)

Thioredoxin
Reaction kinetics; Fructose 1,6-bisphosphatase; Protein complex formation; Enzyme activity; Fine regulation (Häberlein, I. (1253) 169)

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Thioridazine
C-6 glia; 2',3'-Cyclic-nucleotide 3'-phosphohydrolase; Lipid composition; Membrane fluidity (Saito, M. (1235) 178)

Three-dimensional crystallization
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Three-dimensional fluorescence spectroscopy
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Threonine dehydrogenase
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L-Threonine dehydrogenase
Mitochondrion; Inhibitor; Identification (Pagani, R. (1244) 49)

Thrombin
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Thrombin inhibitor
Proteinase inhibitor 6; Placental thrombin inhibitor; Serine proteinase inhibitor; Serpin; Gene expression; (*P. pastoris*) (Sun, J. (1252) 28)

Thrombin-like enzyme
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Thrombocyte
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Thromboplastin
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Thrombosis
Lipoprotein; Modification; Apolipoprotein B; Thromboplastin; Inhibition (Ettelaie, C. (1257) 25)

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Thromboxane A_2 receptor
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Thromboxane A synthase
Prostaglandin H synthase; Megakaryocyte; Differentation (Matijevic-Aleksic, N. (1269) 167)

T84 human colon carcinoma cell
Guanylyl cyclase C; Enterotoxin, heat-stable; Internalization; ST receptor; (*E. coli*) (Urbanski, R. (1245) 29)

Thy-1
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Thylakoid
Charge separation; Patch clamp; Photocurrent (Vredenberg, W. (1230) 77)

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Thylakoid membrane organization
Grana margin; Membrane domain; Protein phosphorylation; Aqueous two-phase partitioning; LHC II protein kinase (Stefánsson, H. (1231) 323)

Thymidine kinase
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Thymidine kinase 1, cytosolic
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Thymidylate synthase
Helminthic enzyme; dUMP analogue; Methylenetetrahydrofolate analogue; Enzyme inhibition; (*H. diminuta*) (Cieśla, J. (1249) 127)

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Tacrine; Physostigmine; Lysosome; Neuroblastoma cell; Alzheimer's disease (Dell'Antone, P. (1270) 137)

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Thymus extract
Cell differentiation; HL-60 cell; Retinoic acid (Schulze-Forster, K. (1265) 110)

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Thyroid hormone
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Thyroid-specific enhancer-binding protein (T/EBP)
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Thyroid transcription factor 1
Gene cloning; Sequence analysis; Sequence comparison; (Human) (Saiardi, A. (1261) 307)

Thyrotropin
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Tight binding
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Tight-binding inhibitor
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Time-gated fluorescence
Blepharismin-binding protein; Photomovement; Photoreception; Ultraviolet B; (*B. japonicum*) (Angelini, N. (1231) 247)

Time-resolved fluorescence
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Time-resolved phosphorescence anisotropy
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Cytochrome oxidase; Electron transfer; Proton translocation; Carbon monoxide photodissociation (Einarsdóttir, Ó. (1229) 129)

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Tissue distribution
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Phosphatidylinositol transfer protein; cDNA sequence; Isoform; (Human) (Tanaka, S. (1259) 199)

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Tissue redox state
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Tissue-specific expression
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Tissue-specific isozyme
Cytochrome *c* oxidase; Nucleotide binding; Subunit composition; Proton pump; Leigh's syndrome (Kadenbach, B. (1271) 103)

Tissue-type plasminogen activator
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TLC-immunostaining
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T lymphocyte
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Protein-tyrosine-kinase; $p56^{kk}$; Splicing (Vogel, L.B. (1264) 168)

TMA-DPH
Plasma membrane; Endocytic membrane; Fluorescence probe (Illinger, D. (1239) 58)

TNFα
Extracellular matrix protein; $CD14^+/CD16^+$ monocyte; CD56 surface marker; LAK dependent cytotoxicity; Interleukin release; (Human) (López-Moratalla, N. (1265) 181)

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Urokinase promoter; AP-1; PEA3 (Lengyel, E. (1268) 65)

Tocopherol
Vitamin E; Uptake; Central nervous system; Peripheral nervous system; Liver (Clément, M. (1256) 175)

α-Tocopherol
Phospholipase D; Calcium ion; 1,2-Diacylglycerol; Cholesterol; FTIR (Yamamcto, I. (1233) 21)

Metastability; Dimiristoylphosphatidylethanolamine; FTIR (Salgado, J. (1239) 213)

Ubiquinol-10; LDL; Lipid peroxidation; Antioxidant; Atherosclerosis (Kontush, A. (1258) 177)

Iron overload; Erythrocyte; Plasma; Lipid peroxidation; Antioxidant enzyme; Thiol (Galleano, M. (1271) 321)

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TOM1
STM1; *HTR1*; Multi-copy suppressor; (*S. cerevisiae*) (Utsugi, T. (1263) 285)

Tonoplast
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Topochemically related peptide
Antigenicity; Affinity chromatography; Inverso derivative; Retro derivative; (Rabbit) (Verdoliva, A. (1253) 57)

Topoisomerase I
Phosphorylation; Scleroderma antibody; Camptothecin; L5178Y subline (Staron, K. (1260) 35)

Kinetic analysis; Sequence preference; Mitochondrion (Topcu, Z. (1264) 377)

Topoisomerase II
DNA structure, non-B; Z-DNA; Alternating purine-pyrimidine repeat; Etoposide (Choi, I.Y. (1264) 209)

Topoisomerase II β
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Topoisomerase II inhibitor VM-26
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ATP synthase; ϵ subunit; Cross-linking; Coupling (Aggeler, R. (1230) 62)

Alpha helix; Amphipathic helix; Antigenicity; Membrane protein; Pore-forming activity; Spiralin (Brenner, C. (1235) 161)

Total parenteral nutrition
Emulsion; Cholesterol synthesis; Intestine; Isotopomer analysis; (Liver) (Hajri, T. (1258) 188)

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Ricin; Protein structure; Disulfide bond (Mohanraj, D. (1243) 399)

Lipoprotein; LDL; Oxidized LDL; Endothelial cell; Atherogenesis; Phospholipid hydrolysis (Schmitt, A. (1256) 284)

Mitochondrion; Bioactivation; Cysteine *S*-conjugate; 4-Thiaalkanoate (Anders, M.W. (1271) 51)

Toxic phytoplankton
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Toxin
Acetylcholine receptor; α-Bungarotoxin; Photolabeling; Conformation; Antagonist (Moore, M.A. (1235) 336)

α-Toxin
Pore-forming toxin; Membrane insertion; Oligomerization; Pore formation; (*Staphylococcus*) (Valeva, A. (1236) 213)

Primary structure; $^{86}Rb^+$ outflow; Islets of Langerhans; (Rat); (*Tityus serrulatus*) (Marangoni, S. (1243) 309)

δ-Toxin
Ion channel; Amphipathic helix; Hemolysis; Channel-forming peptide (Kerr, I.D. (1236) 219)

Toxin receptor
Cytoplasmic male sterility; Ligand-gated pore-forming protein (Siedow, J.N. (1271) 235)

Trace element
Copper transfer; Copper transport; Cytotrophoblast; Placental transport (Tong, K.K. (1269) 233)

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Liver; Ethanol; Lysosome; Protein degradation; Proteinase (Kharbanda, K.K. (1245) 421)

Transacylase
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Transamination
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Transcobalamin
Cobalamin; Vitamin B-12; Methylmalonyl-CoA mutase; Methionine synthase; Cobalamin coenzyme (Quadros, E.V. (1244) 395)

Transcortin
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cDNA; Gene expression; Recombinant protein; Translation; Localization; Polymorphism; Atomic structure (Lundström, K. (1251) 1)

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Hydroxyurea; c-jun; Regulation; Erythroid; Differentiation (Adunyah, S.E. (1263) 123)

Alternative splicing; High mobility group box; T-cell (Mayer, K. (1263) 169)

dnaK locus; *orf16*; Archaeon vs. bacterium; (*Methanosarcina mazei*) (Macario, A.J.L. (1264) 173)

Interferon-α2; Allelic variant; Peptide map (Linge, C. (1264) 363)

Transcription factor; DNA binding protein (Dairaghi, D.J. (1271) 127)

Transcriptional control
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Transcriptional elongation factor
Genomic clone; Gene characterization; (*D. melanogaster*) (Oh, Y. (1262) 99)

Transcriptional factor
Glucocorticoid receptor; Oxidant; Anti-oxidant; DNA–protein interaction (Esposito, F. (1260) 308)

Transcriptional initiation site
Seminalplasmin gene; Primer extension analysis; Consensus sequence; Promoter activity; (Bovine) (Herbers, J. (1263) 271)

Transcriptionally competent chromatin
Histone H1 subtype; Chromatin reconstitution; Higher order structure (Nagaraja, S. (1260) 207)

Transcriptional regulation
Δ^9-Desaturase; Peroxisome proliferator; Brown adipose tissue (Diczfalusy, U. (1259) 313)

β-Galactoside α-2,6-sialyltransferase; Acute phase reactant; Interleukin 6 induction; (HepG2 cell) (Aas-Eng, D.A. (1261) 166)

Synapsin I; cAMP responsive element; Protein kinase A; Neuronal gene expression (Hoesche, C. (1261) 249)

Peroxisome; Oleic acid induction; (*S. cerevisiae*) (Kos, W. (1264) 79)

Mitochondrial biogenesis; Thyroid hormone; Promoter structure (Nelson, B.D. (1271) 85)

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Apolipoprotein E gene; Nuclear factor; Gel mobility shift assay; Protein binding domain; (Mouse) (Paik, Y.-K. (1262) 124)

Transcription factor
Morphogen gradient; Dorsal; Bicoid; Embryogenesis; (*Drosophila*) (Courey, A.J. (1261) 1)

oct-1; cDNA; (Murine) (Jaffe, J. (1261) 201)

Fork head; Telencephalon; Neuron; Chromosome 14q; Brain factor; (Human) (Wiese, S. (1262) 105)

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Interleukin 2; Promoter; Signal transduction; T cell activation (Serfling, E. (1263) 181)

Gal4 DNA-binding domain; GUS assay; Histone H3 gene; BY-2 cell; (Wheat); (Tobacco) (Nakayama, T. (1263) 281)

Interleukin 1; Signal transduction; Second messenger; Protein kinase; MAP kinase (O'Neill, L.A.J. (1266) 31)

Transcription; DNA binding protein (Dairaghi, D.J. (1271) 127)

Transcription factor AP2
Preprotachykinin; Substance P; Gene transcription (Quinn, J.P. (1263) 25)

Transcription regulation
cDNA cloning; Zinc-finger structure; PCR; (*Xenopus*); (Human) (Hla, T. (1260) 227)

Transcription unit
Ribosomal gene cluster; SRP-receptor; Secretory component secEp; (*S. acidocaldarius*) (Moll, R. (1261) 315)

Crenarchaeota; secY gene; Protein translocation; (*S. acidocaldarius*) (Kath, T. (1264) 155)

Transcript regulation
Chitinase; Vacuolar protein; Wound-induced; genomic DNA (Hamel, F. (1263) 212)

Transesterification
Acylation; Deacylation; Solvent; Serine hydrolase; Esterification (Martinelle, M. (1251) 191)

Transfectant
Enhancer region; Immunoglobulin; Vector; (Myeloma cell) (Harrison, T.M. (1260) 147)

Transfected HEK 293 cell
Cloned calcitonin receptor; Calcium influx; Thapsigargin (Findlay, D.M. (1265) 213)

Transfection
Cationic liposome; Liposome; Gene therapy; Endocytosis (Farhood, H. (1235) 289)

DOTMA; COS-7; Carrier; Synthetic amphiphile (Van der Woude, I. (1240) 34)

Transforming growth factor-β; Receptor; c-*fos*; Rat liver epithelial cell (Mercier, T. (1266) 64)

Transferrin
Zonal heterogeneity; Receptor; Trypsin-activated α_2-macroglobulin; Protein, 39 kDa; Lactoferrin (Voorschuur, A.H. (1257) 288)

Nitrogen monoxide; Iron uptake; Iron mobilisation; Neoplastic cell (Richardson, D.R. (1266) 250)

Haber–Weiss reaction; Iron uptake; Hydroxyl radical; Iron (Richardson, D.R. (1269) 105)

Transfer vector
Recombinant DNA; Translational initiation; Insect cell; T7 expression system; Heparin-affinity chromatography; Mitogen (Hills, D. (1260) 14)

Transformation
EPR; Membrane; Molecular dynamics; Protein body; Spin label; Vacuole (Strzałka, K. (1239) 103)

v-*src* Transformation
Platelet-derived growth factor; Receptor; mRNA; (Rat kidney fibroblast) (Zhang, Q.-X. (1266) 9)

Transformation growth factor
Phospholipase A_2; Elicited peritoneal macrophage; Prostaglandin E_2; Leukotriene B_4; Cyclooxygenase; Indomethacin; Aspirin (Bolognese, B. (1256) 201)

Transformed cell
Ornithine decarboxylase; Marker of proliferation; Fibroblast; *ras*-Oncogene (Shayovits, A. (1267) 107)

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Mutant allele; DNA sequence; Nonsense mutation; (*D. melanogaster*) (Yuan, X. (1260) 369)

Transforming growth factor α
Arginine; Transport; System y^+; Epidermal growth factor; Phorbol ester; Protein kinase C (Pan, M. (1239) 27)

Transforming growth factor β
Receptor; c-*fos*; Transfection; Rat liver epithelial cell (Mercier, T. (1266) 64)

Transforming growth factor β receptor
Prostaglandin E_2; mRNA (Fine, A. (1261) 19)

Transgene
Ornithine transcarbamylase; Orotic acid; Liver; Small intestine; (spf-ash Mouse, sparse-fur with abnormal skin and hair) (Saheki, T. (1270) 87)

Transgenic expression
α-Tubulin; Carboxy-terminal residue; Neural specificity; Inter-species conservation; (*C. elegans*) (Fukushige, T. (1261) 401)

Transgenic mouse
LCAT activity; Apo I; (Mouse); (Human) (Golder-Novoselsky, E. (1254) 217)

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Transglutaminase
Ethanol; Liver; Polyamine; (Rat) (Sessa, A. (1245) 371)

Transglutaminase activity
Articular chondrocyte; Retinoic acid; Collagen synthesis; Aging; Differentiation (Demignot, S. (1266) 163)

Transhydrogenase
Proton translocation; Nicotinamide nucleotide; Energy transduction; (Bacterial membrane); (*E. coli*) (Bizouarn, T. (1229) 49)

Proton pumping; Nucleotide; NAD; NADP; Membrane protein (Hu, X. (1229) 64)

Nucleotide; NAD; NADP; Proton pumping (Olausson, T. (1231) 1)

Proton translocation; Mitochondrion; Liposome; Membrane protein (Sazanov, L.A. (1231) 304)

Transhydrogenation
Ion transfer; Hydride transfer mechanism; NADH; 3-Acetylpyridine adenine dinucleotide; Pyridine nucleotide transhydrogenase (Glavas, N.A. (1231) 297)

Transient CAT assay
CCAAT element; Histone gene; Promoter activity; recombinant DNA (Takami, Y. (1264) 29)

Transient expression
Protoplast; Coelectroporation; Monoclonal antibody; Lipoxygenase; (*L. culinaris*) (Maccarrone, M. (1243) 136)

DNA methylation (Komura, J.-i. (1260) 73)

Transition metal
LDL; Oxidation; Inhibition; Bilirubin; Albumin-bound bilirubin (Hulea, S.A. (1259) 29)

Transition state
Tryptophan tryptophylquinone; Enzyme inhibition; Substituent effect (Davidson, V.L. (1252) 146)

Phosphonate; Inhibition; Lipase; Triacylglycerol (Mannesse, M.L.M. (1259) 56)

Transition temperature
Placenta; Brush-border membrane; Liposome; Fluidity; Glucose transport (Ghosh, P.K. (1236) 317)

Helix-coil transition; Poly[d(A-T)]; Pressure dependence; Cation (Najaf-Zadeh, R. (1262) 52)

Transit peptide
Gene evolution; Gene substitution; Isozyme; Molecular evolution (Schmidt, M. (1261) 257)

Translation
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cDNA; Gene expression; Recombinant protein; Transcription; Localization; Polymorphism; Atomic structure (Lundström, K. (1251) 1)

Cadherin; Polyadenylation; Oocyte maturation; (*X. laevis*) (Kühl, M. (1262) 95)

Insulin growth factor II; Initiation; Internal ribosome entry site; (Human) (Teerink, H. (1264) 403)

Translational initiation
Recombinant DNA; Transfer vector; Insect cell; T7 expression system; Heparin-affinity chromatography; Mitogen (Hills, D. (1260) 14)

IF-2; Mitochondrion; 3′-RACE PCR; RT-PCR; (Bovine) (Ma, J. (1261) 321)

Translational regulation
Polyamine; *S*-Adenosylmethionine decarboxylase; Protein turnover; COS cell (Svensson, F. (1260) 21)

Initiation factor-2; Glycoprotein; cDNA; (Human) (Li, X. (1260) 333)

Cap-binding protein; eIF-4F; mRNA cap structure; Translation initiation; (*Drosophila*) (Hernández, G. (1261) 427)

Translation initiation
Cap-binding protein; eIF-4F; mRNA cap structure; Translational regulation; (*Drosophila*) (Hernández, G. (1261) 427)

Translocation
Phosphatidic acid phosphohydrolase; Tissue distribution; Subcellular distribution (Fleming, I.N. (1254) 161)

Tyrosine phosphorylation; Platelet; Cytoskeleton; Protein tyrosine kinase $pp60^{c\text{-}src}$; (Human) (Altmüller, A. (1265) 61)

Translocation PKC
Diacylglycerol; Cholecystokinin; Protein kinase C; Tetradecanoyl phorbol acetate; L-364,718 (Bastani, B. (1269) 307)

Transmembrane domain
G protein-coupled receptor; Seven-transmembrane domain receptor; Gene cloning; (*Oryzias latipes*) (Yasuoka, A. (1235) 467)

Transmembrane helix
Antenna complex; Light harvesting; LH1; LH2; Circular dichroism; Bacterial photosynthesis; (*Rh. molischianum*); (*Rb. sphaeroides*) (Visschers, R.W. (1230) 147)

Ion channel; Nicotinic acetylcholine receptor; Molecular dynamics; Electrostatics (Sankararamakrishnan, R. (1239) 122)

Transmembrane oxidoreductase
Ascorbic acid; Ascorbate recycling; Nitroblue tetrazolium; Erythrocyte; (Human) (May, J.M. (1238) 127)

Transmembrane pH difference
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Transmembrane protein
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Transport
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Lysosome; Sulfate; Membrane vesicle (Koetters, P.J. (1235) 79)

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Δ^1-Piperidine-2-carboxylate; Synaptosome; Metabolism; Neuromodulator (Chang, Y.-F. (1238) 29)

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Transport protein
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Trehalase
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Trehalose
Trehalase; Heat stress; Glycolysis; (*Neurospora crassa*) (Bonini, B.M. (1245) 339)

Trehazolin
Glucosidase; Glycosidase; Slow, tight-binding inhibitor; Trehalase (Ando, O. (1244) 295)

Triacylglycerol
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Trypanothione reductase
Trisulfide; Glutathione reductase (Moutiez, M. (1245) 161)

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α-Tubulin
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Tyrosinase-related protein
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Tyrosinase-related protein 1
Dopachrome tautomerase; Melanin synthesis; Pigmentation; Tyrosinase (Winder, A.J. (1268) 300)

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Tyrosine aminotransferase
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Tyrosine fluorescence
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Tyrosine kinase
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Protein-tyrosine phosphatases; Insulin receptor; Skeletal muscle; Tyrosine kinase (Ahmad, F. (1248) 57)

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UbA52
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Ribosomal protein; Colon cancer; Gastric cancer; Subtractive cDNA hybridization; Ubiquitin; UbA52; Cancer (Barnard, G.F. (1272) 147)

Ubiquinol-10
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cDNA sequence; Subunit VIII; (*Schizosaccharomyces pombe*) (Boumans, H. (1229) 386)

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Ubiquinone reduction
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ATPase; Proteinase; Proteasome; Multicatalytic; Muscle; (Rabbit) (Akaishi, T. (1245) 331)

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Ubiquitin conjugation
Polyubiquitin gene; Ubiquitin-conjugating enzyme; Proteasome; Multicatalytic proteinase; Muscle atrophy; (Crustacean) (Shean, B.S. (1264) 312)

Ubisemiquinone
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Macrophage; fMLP; Superoxide ion; Fura-2; Dihydrorhodamine-123; Rhodamine-123 (Bueb, J.-L. (1244) 79)

U937 cell
Herbimycin A; 19-Allylaminoherbimycin A; Glutathione; Granulocyte-macrophage colony-stimulating factor; Growth inhibition (Makishima, M. (1272) 199)

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Blepharismin-binding protein; Photomovement; Photoreception; Time-gated fluorescence; (*B. japonicum*) (Angelini, N. (1231) 247)

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Electrogenic transport; ATPase, Na^+/K^+-; Reconstitution; Sodium–sodium ion exchange; Hydrophobic ion; Dephosphorylation; Membrane potential (Cornelius, F. (1235) 183)

Uncoupled transport
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Aminopeptidase; Cobalt ion; Endoproteinase; Plasma membrane; Proteinase inhibitor; *(Chlamydomonas reinhardtii)* (Langheinrich, U. (1249) 45)

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Urea
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Urea-induced monomerization
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Uridine phosphorylase
Tetranitromethane; Amino acid modification; Tyrosine; (*E. coli*) (Komissarov, A.A. (1252) 239)

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Urokinase-type plasminogen activator receptor (u-PAR); Cyclic AMP (cAMP); (Human osteoblast-like cell) (Nonaka, T. (1266) 50)

Urokinase-type plasminogen activator receptor (u-PAR)
Urokinase-type plasminogen activator (u-PA); Cyclic AMP (cAMP); (Human osteoblast-like cell) (Nonaka, T. (1266) 50)

Urokinase-type plasminogen activator (uPA)
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Vaccine
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Vacidin A
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Vacuolar ATPase
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Vacuolar ATPase; ATPase, F-type; Proton pump; Gamma subunit; (*Neurospora crassa*) (Bowman, E.J. (1237) 95)

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Valine dehydrogenase
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Valinomycin
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Vanadate-activated phosphorylation
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Vascular endothelial growth factor
Vascular permeability factor; Isoform; Angiogenesis; Vascular permeability; (*Saccharomyces cerevisiae*) (Kondo, S. (1243) 195)

Vascular permeability
Vascular endothelial growth factor; Vascular permeability factor; Isoform; Angiogenesis; (*Saccharomyces cerevisiae*) (Kondo, S. (1243) 195)

Vascular permeability factor
Vascular endothelial growth factor; Isoform; Angiogenesis; Vascular permeability; (*Saccharomyces cerevisiae*) (Kondo, S. (1243) 195)

Angiogenesis; Cytokine; Growth factor; Mutant; (Endothelium) (Claffey, K.P. (1246) 1)

Vascular smooth muscle
Superoxide anion; NADPH oxidase; Cytochrome *b*-558; cDNA cloning (Fukui, T. (1231) 215)

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Vasopressin
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VDAC
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Vector
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Vectorial coupling
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VEGF
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Vehicle
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Platelet inhibitor; Anticoagulant (Laing, G.D. (1250) 137)

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Anionic phospholipid; Doxorubicin; Drug–membrane interaction; Multidrug resistance; Passive diffusion; P-glycoprotein (Speelmans, G. (1238) 137)

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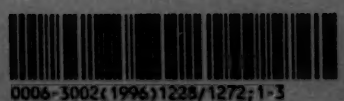
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